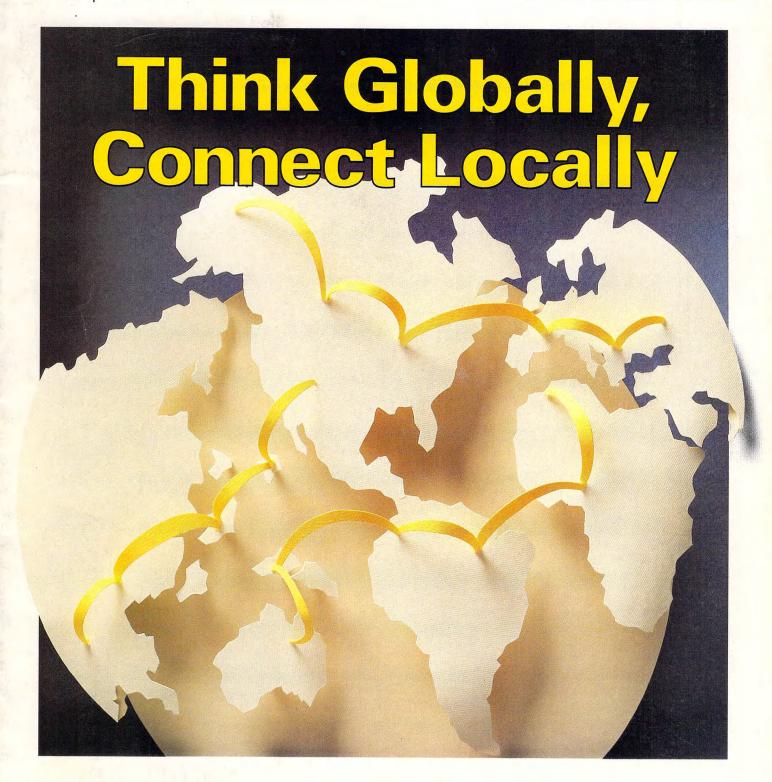
Desktop Publishing: What You Should Know – p. 18

Database Managers Revealed – p. 22

Once and Future Seeds – p. 36

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MAGAZINE





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# CONTENTS

# FEATURES

### **Feature Story**

# 10 Yet Another 'Globalization' Story...

From Paris to Patagonia, Tokyo to Tinsel Town, more people are getting online for good reasons: it's getting easier, cheaper and the so-called globalization of almost everything is making "continentalk" more of a necessity. Bonuses: Where to meet internationals online; how to tap into CompuServe from Europe.

### **Computing Services**

# 18 Beat The Desktop Learning Curve

It takes much more than software to run a desktop publishing business. Get ongoing expertise in the DTP Forum. Bonuses: Favorite files for desktop publishing helpers and a profile of DTP Forum sysop Thom Hartmann.

- **Database Managers Demystified:** Straight talk about database management software or "DBMS"—what it is, how to identify the right one for your needs.
- **A DBMS Trio:** ACIUS, Fox and Oracle—three major database management software vendors—depart their "mother forums" and open their own customer support areas.

### **Money Matters**

# 26 On Your Mark for World Markets

Get ready for the trade options of the 1990s: investment oppportunities abound in freer global markets. Bonuses: Dun's Market Identifiers with an international accent; Investext's European reports.

29 Stalking Stocks: Investment experts tell you where to find investment data online and what to do with it once you have it.

### Trave

# 32 | Say, Old Bean!

Experience the true pleasures of England in 18th-century manor house elegance. Bonuses: Finding English country hotels; booking flights to the British Isles.

35 England-on-Rye: Visit one of the best-preserved ancient seaports on England's southern coast.

### Personal Business

# 36 SOS: Save Our Seeds

The Good Earth Forum hosts a seed exchange to help preserve heirloom varieties of edible and ornamental plants. Bonuses: Mail-order seed company networks; NASA's "Space Tomatoes."

8



CompuServe expands world service - p. 10



Plan a sojourn in English splendor - p. 32

**Update: Last-minute News** 

# **Too Hot to Print**

▶ Catch computer industry news as it happens, read special reports, commentary and more product reviews. You'll find it only in *Online Today*, a daily updated newspaper.

Behind the Screens	OLT-130
CompuServe This Week	OLT-50
Online Today Guide	OLT-351
Product Reviews	OLT-200
Special Reports	OLT-2000
Today's News	OLT-90

# DEPARTMENTS

3 Letters 39 Software Reviews
4 Dear Reader 45 Computer Book Reviews
5 Monitor 47 Go Mall

Uploads: New and Classic Forum Files

CompuServe Magazine (ISSN 0891-4672) is published monthly in the United States of America by CompuServe Incorporated, 5000 Arlington Centre Blvd., Columbus, OH 43220.

60

### Behind the Scenes

I want to commend you on the consistently fine quality of *CompuServe Magazine*. I would also like to suggest an article detailing the folks and equipment behind the scenes at CompuServe. I envision a massive building with many levels of super computers. Then again, I think, they probably do the whole thing with an old IBM 8088 with a bunch of add-on breadboards.

I have most enjoyed the articles in *CompuServe Magazine* that have, in the past, dealt with the folks that make the whole thing happen. I also appreciate the bylines that include something about the author and his or her CompuServe address.

John E. Brandt Sanford, Maine

### **MNP** Levels

I have just finished reading Ernest E. Mau's article "Modulator/Demodulators Revealed" (March 1990), and Mr. Mau states that MNP Level 5 is the highest level when in fact this is not true. Class 4 is error-correcting. Class 5 is equivalent.

I agree with Mr. Mau's statement that prospective buyers should be wary of misleading advertising.

Richard Perritt South Porcupine, Ontario

Ernest Mau replies: It is true that MNP Levels 4 and 5 both feature error correcting. However, as stated in the article, Level 5 adds data compression and decompression to simulate faster transfers and thus is not equivalent to Level 4. If the MNP modems at both ends of the communications link are not equipped for Level 5, the link should fall back to Level 4 error correction without data compression.

# Send a Letter

OLT-30 Letters to the Editor main menu.
Lists all departments.

OLT-31 Send a letter instructions. Complete instructions on how to send a letter to the editor via the electronic service.

OLT-32 Read letters from other OLT readers.

OLT-33 Send a letter to the editor. You will receive prompts for each step in the process. Important Note: We cannot answer questions regarding the CompuServe Information Service through this service. If you have questions or problems, please use the Feedback service (GO FEEDBACK).

### Article Index

I have been a member of CompuServe since December 1988, and your magazine has a gold mine of information. My problem is this: Sometimes I spend half an hour trying to find an article from a previous issue. Will there ever be an article index for the magazine such as the one in *Consumer Reports* magazine?

David E. Edwards San Antonio, Texas

Editor's note: An index is in production and should be available later this year.

# CompuServe Information Manager

I just received my copy of the Compu-Serve Information Manager. I wasn't sure how getting around the service would become easier, but this program has fit the bill. This product, combined with the magazine, makes the CompuServe Information Service very enjoyable.

I have noticed that the help file on uploading is no longer available. Have you done recently, or can you do, an article on both uploading and downloading?

Becky Grasser Arlington, Va.

### **Professional Draw**

Regarding the review of Professional Draw (March Online Today, GO OLT), it seems an oversight was made in not including the version number of the program. Since ads for ProDraw 2.0 are now out trumpeting the program's superior text handling (among other things), I can't help but wonder which version was referred to. 1.0? 2.0? Maybe it was hidden in there somewhere, but it should be more obvious.

Roger Hand San Francisco, Calif.

Editor's note: The version reviewed was 1.0.

Correction: It was stated in "Here's What MMS Looks Like ..." (April, p. 30) that Equity Market Analysis, FEDWATCH and Weekly Economic Survey reports are surcharge-free. They are, in fact, surcharged products at a price of \$5 each.

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# **Dear Reader**

mid all the globalization hype and "Earthspeak" running amok in the press these Adays, you probably could do without another We Are the World-type story, which pretty much describes our cover feature topic this month. After all, it seems nationalism and ethnic bickering are actually on the rise. And what of all the ink spilled about a "global economy"? A sharp downward correction in the Tokyo stock market last spring didn't seem to have the profound worldwide domino effect some had anticipated in such an event. Above all (here's where we cut to the chase dear reader) we honestly didn't consider that this topic would be worn to a nub by now when we planned our editorial calendar more than a year ago.

Still, as is often the case with subjects mauled by pack journalism, there's a kernal of truth trampled underfoot during the stampede and some interesting facets of the story that are ignored altogether, the "disappearing borders" story is no exception. No doubt the world is moving, albeit in fits and starts, toward a global economy (see Money Matters story on page 26 on how to keep up with the changes). And, there appears to be more international cooperation across the board. But there exists one quietly effective area of international fraternization not often covered in the general press: worldwide computer-to-computer communication, the focus of our feature.

There's more international activity on CompuServe than ever before, mainly because it's getting easier than ever to gain local access from most any point on the globe. CompuServe is at the forefront of online service "globalization" through agreements with Network Information Forum in Japan and Tele Columbus/Radio Schweiz in Switzerland,

which serves Europe.

In "Think Globally, Connect Locally" (starting on page 10, and our apologies to the Earth Day organization) find out why international online traffic is building and what's behind the growth; meet some internationals who use CompuServe and find out what they're doing online; discover the best places on CompuServe to meet internationals; learn how to connect from Europe and elsewhere—good information for the next time you travel.

There's only one thing scarier than people who watch lots of TV wrestling, and that's people who watch lots of TV wrestling and have desktop publishing capability. When you stop and think about it, some pretty appalling points of view (not to mention some dreadful writing) can be lent considerable visual credibility without need of a 50-ton web offset press or something so incidental as literacy.

Fortunately, it's still not quite as easy as it's made to sound in those desktop publishing brochures to churn out high-quality newsletters and magazines with a DTP system. One still has to acquire a modicum of typography, design and writing skill to

produce truly effective publications.

Whether you're just considering buying a DTP outfit or already have a system but only enough working knowledge about it to be dangerous, you'll derive considerable benefit from our DTP story starting on page 18. You'll find out from DTP professionals who have "been there" what it really takes to make desktop publishing work. Experts who operate CompuServe's DTP Forum offer tips and tell you how and where to get solutions to your problems.

By the way, we're only half kidding about the wrestling stuff, so please don't send letters. Hulk Hogan can publish anything he wants to-honest.

> Douglas G. Branstetter Editor

CompuServe® Magazine™, June 1990

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Richard A. Baker Editor Douglas G. Branstetter

Art Director Thom Misiak **Managing Editor** 

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Assistant Editors Denise Erwin Anderson, Gayle Brown, Christopher J. Galvin

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**Design Coordinator** Dorothy Hogar

Contributing Editors
Charles E. Bowen, Cathryn Conroy, John Edwards.
Carole Houze Gerber, Ernest E. Mau, Holly G. Miller

Copy Editor Kacy Cook **Proofreaders** 

Christine Harrington Julia A. Tober **Photocomposition Coordinator** 

Susan Toom **Production Assistant** Jody Myers

Editorial Assistant Bobbi Dominick

### **ADVERTISING**

Associate Publisher

Peter A. Scott, 5000 Arlington Centre Blvd., Columbus, OH 43220; 614/457-8600; 70003,3731

**Mid Atlantic** Jennifer Stothers 212/486-2440

**New England and Southeast** David Koeneman 614/457-8600

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# MONITOR

# **Chip Talk**

Microchip speech technology has come a long way from its infancy, where its use was confined to specialized applications such as expensive talking computer systems for the blind. Texas Instruments introduced the general public to synthesized speech about 10 years ago with its Speak 'n' Spell educational toys, but cost restricted its use in other applications.

Synthesized speech technology has grown up. Last fall, 140,000 selected subscribers to Business Week magazine's corporate elite edition received a four-page insert from Texas Instruments predominantly displaying a sticker labeled "Lift and Listen." Those who accepted the challenge were treated to a 42-word, 15-second demonstration of TI's new, costeffective talking chip, which featured a digitized male voice promising to "Change the way the world lives, works and plays."

Each BW ad contained a credit card-sized module with three tablet-sized batteries and a chip no bigger than a baby's fingernail. Its 8K memory is capable of mimicking voice inflections and emotions and carry background music or sound effects.

TI's breakthrough chip, at a projected \$4 per unit cost for mass production, offers an easy way to break through the information clutter and provides direct-mail advertisers with a new way of grabbing attention.

TI foresees other applications, such as providing instructions to the illiterate or visually impaired or serving as an added warning on medicine and chemical containers.

So, if you are startled in the middle of the night by a strange voice emanating from your wastebasket, don't panic; it's probably a discarded flier demanding a second lease on life!



Working From Home movement supporter: President Bush

# That Home Office Thing...

The words were spoken by President George Bush, but the facts for the text came directly from Paul and Sarah Edwards, Forum Administrators of the Working From Home Forum (GO WORK) and coauthors of Working From Home: Everything You Need to Know About Living and Working Under the Same Roof (Jeremy Tarcher, 1985).

Addressing the California Chamber of Commerce in March, Bush said, "Flexible workplace policies will allow you to find and keep the best talent. And one of the most promising of these new business frontiers is telecommuting: taking advantage of new technology to enable your people to work at home one or two days a week. Clearly, this exciting concept will not apply to every business or every kind of employee, but consider: A typical 20-minute round-trip commute to work over the course of a year adds up to two very stressful 40-hour weeks lost on the road.

"But if only 5 percent of the commuters in L.A. County telecommuted one day each week, they'd save 205 million miles of travel each year—and keep 47,000 tons of pollutants from entering the atmosphere. So telecommuting means saving energy, improving air quality and quality of life. Not a bad deal."

The White House Office of Policy Management has turned to the Edwards for advice on how to advance the work-fromhome movement. The Edwards started a message thread in the forum titled "The White House Asks," requesting forum members to submit ideas. Based on members' responses, they have made the following recommendations to the White House:

- ▶ Deal with the growing health insurance crisis that impacts the work-from-home population.
- ► End credit discrimination against home-based businesses.
- ➤ Prepare America's homes for 21st-century communications through such high-tech advances as optical fiber wiring.

Of course, why wouldn't the president support the idea of working from home? After all, he has the premier home office!



# **Seahorsing Around**

t had all the basic elements, from kinky sex to violent death. But we hesitate to call it a soap opera, since the whole thing took place in the water.

It began with a popping-proud announcement in the Aquarium Forum (GO FISHNET) that a member's male Hippocampus seahorse had unexpectedly just given birth to six little ones. (Female seahorses deposit fertilized eggs in daddy's pouch, where the eggs hatch.) For several days, members wracked their brains with suggestions for feeding the newborns, who normally don't thrive in captivity. Brachionus rotifers and brine shrimp with with a unicellular algae chaser? Dwarf gourami fry?

Alas, four days later, it was all over. "There is only one baby seahorse remaining," reported the owner. "All ate well, but wasted away and died one by one. On an 'up' note, I watched the pair of adults mating today."

How's that for a stiff upper brachionus rotifer chomper? Stay tuned for the pitterpat of little feet ... er, fins.

# **Gee Whiz!**

Section 5, "Between the Sexes" in the Issues Forum (GO ISSUES), can sometimes be the scene of major digital carnage, as conservatives and feminists of both genders square off on such topics as alimony, affirmative action, rape and abortion. (What? You missed the "discussion" about whether women who don't take their husband's last names are just "scared"?)

Nonetheless, a non-sexist belly laugh is shared occasionally by one and all. Recently, a female sysop posted the news that the lowa senate had passed a "potty parity" bill to rectify the problem of unequal rest room facilities. Starting next year, she reported, women's rooms in the state will be built with extra toilets—since, while men's and women's rooms currently have the same number of toilets, men's rooms have urinals as well

"I guess that just goes to show you," noted a male forum member, "that women are just not going to stand for it anymore."

# Classifieds

"Think of it as the bulletin board at a members-only club," says Dan Meeks, product manager of CompuServe's new Classified service (GO CLASS-IFIEDS). Meeks says the upscale bent of most members makes a classified ad-style bulletin board particularly attractive to those wishing to sell or buy items such as boats, used computer equipment or real estate.

Ads will remain posted for seven- or 14-day periods under any of 11 headings, including Announcements, Business/Investments, Travel, Employment and Real Estate. All ads will be reviewed before posting online.



Educators try to jazz up lessons: Class in session

# 'GTV' Raps American History

c lassroom wall maps and film slides may soon be replaced by video players and personal computers, if a pilot project of the National Geographic Society, Apple Computer and Lucasfilm proves successful.

The trio recently unveiled a two-videodisc package entitled "GTV: a Geographic Perspective on American History."

"GTV is designed to engage and entertain, as well as to educate," explains the Society's George Peterson. "The material, such as a rap song that details the acquisition of US territories, tells the story of American history in ways that capture the attention of even the most jaded or tuned-out

students."

Software for this multimedia classroom system is currently available for Apple IIgs computers. A Macintosh version is scheduled for release later this month, and an IBM edition is under development.

The \$650 program, targeted at grades 5 through 12, has already been purchased by the San Francisco Unified School District for all of its 18 middle schools. Demonstrations are planned for the May 11-12 California Computer Using Educators Conference in Palm Springs and at the June 25-27 National Education Computing Conference in Nashville. For more information, call 800/368-2728 or 301/921-1330.

# **Fur Sure**

In the "Toshiba Laptop" message section of the PC Vendor A Forum (GO PCVENA), a man with a T3200 sounded a cry for help. What to do when your computer shares desk space with four cats-with all the usual feline propensity for shedding hairs and other unmentionable substances directly onto your keyboard? "I was wondering if anyone in CompuServe-land could suggest a suitable dust cover," he wrote. "I tried using the largest shower cap I could find-Eckerd's Bouffant model-but it was too small."

Another member of the forum confessed that he had had a similar problem, and had solved it with a "customized" Hefty trash bag—until his cat decided the bag was a wonderful toy. The last time we checked, the panel remained stumped on this one.

Pssst. Have you thought of buying a NEC UltraLite and covering that with a shower cap?



# Something Else Leaked by the Press

he Journalism Forum (GO JFORUM) recently hosted one of those nine-zillion message threads, much beloved in CompuServe forum lore, in which everybody gets to stand up on a soapbox, expound on truth and justice, and lob verbal grenades at the dummies on the wrong side. This time the topic, set forth in Section 5, "Comment/Controversy," concerned a Vermont editor who quit his job in protest against his newspapers' policy of testing potential reporters for drug abuse.

The editor's detractors brought up the illegality of drugs, the potential cost in productivity loss to employers of stoned employees, the particular risks posed by drugged-out zombies piloting airplanes or performing brain surgery on beloved family members, and, especially, the really awful prose they tend to churn out.

The editor's supporters countered that bad employees can be fired, that what people do outside the office is their own business, and that it's degrading to go from expounding one's philosophy of news coverage in a job interview to depositing bodily fluids in a paper cup—not to mention the fact that Ernest Hemingway "wouldn't pass no substance abuse test, no how."

Another argument advanced by the antitesters was that the tests can often yield false positives—for example, that the eating of poppy seeds can erroneously be labeled as heroin use.

But those green-eyeshaded investigative types are nobody's fools. Demanded one: "How many reporters go around munching poppy seeds?"

Another Woodward-Bernstein clone shot back: "May I assume you've never eaten a bagel?"

# A Quick Upload Saves the Pay

**MEMBER ESSAY** 

t was late Sunday evening and the report was due early the next day in the chairman of the board's office. I had just

completed the report and was proud of it, but there was

one huge obstacle yet to be resolved: The chairman had been a stickler on uniformity in the appearance of company communications for years, and I knew my dot matrix printer at home fell short of his expectations.

To make matters worse, my home computer and the computer in the office were not compatible, so I couldn't even use a disk from home to run off a copy on the laser printer once I got to the office. The fact that

the meeting was set for first thing in the morning

made matters worse. Finally, my secretary was on vacation.

As panic started setting in, I quickly found a solution. I would upload the copy to myself on CompuServe Mail, then download, format and print it on the office printer the next day.

The technique worked. The chairman was pleased with the

report—one I had reproduced on time, without retyping and without secretarial help.

John P. Rodgers, Jr. Fremont, Calif.

CompuServe Magazine invites CompuServe members to compete for 10 hours of free connect time by writing a 200-word essay describing original uses for the Information Service.

Send typed, double-spaced essays to User ID 70003,4623. Please include your full name, address and User ID number. Watch for winning essays in Monitor.

# **Tot Trivia**

What to do on those rainy summer vacation afternoons when the kids are about to drive you up the wall?

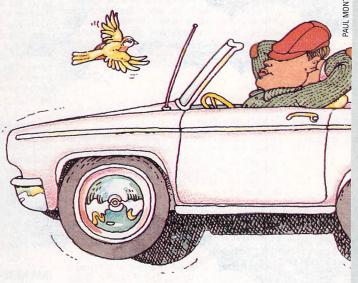
"Trivia for Kids" is one answer for the 7- to 12-year-old bunch.

A section of The Multiple Choice challenge (GO TMC), these trivia questions are available in three categories: folk and fairy tales, animal facts, and science and nature.

Part of the fun is watching the smiles on children's faces as they delight in outscoring their parents.

More important, youngsters can test their recall of topics covered in their school text-books (a baby horse is a foal, and the line around the middle of the Earth is the equator).

Kids are given two opportunities to type in the correct answer (minor misspellings are accepted). The game continues until five questions are missed, and "stumpers" are occasionally tossed in as tie-breakers. Kids score high here; it's the parents whose recall sometimes doesn't make the grade.



# Must You Go in a Yugo?

Renting a car used to be a fairly dismal experience.
You rented what was available, not what you wanted, which often meant getting a gas-guzzler if you wanted an economy car, or tooling about in a minivan during an important business trip.

No more, says Linda Utt, technical support representative for PARS Travel Information Systems. CompuServe members can use Travelshopper (GO PARS) to reserve the car of their choice.

"In the old car-rental system, a request for a convertible, a four-wheel drive or a sports car had to be treated as a special request," says Utt. Now, members choose from nine automobile classes and eight vehicle types as a matter of course. And it is possible to rent a specially equipped vehicle from any of the 36 car-rental companies available, so requests for standard or automatic transmission or four-wheel drive are not out of line.

Travelshopper provides a rental confirmation number within 24 hours. Use this number to pick up your limo, or Jeep Cherokee, or whatever, at the airport rental office you select.

# Get the Facts Before a Fax

To fax or not to fax is no longer the question. The facsimile machine has become commonplace, and like other technological devices, keeps getting better and more plentiful all the time.

If you're just now shopping for one, don't get lost in a sea of sales pitches-there is a resource book that can help. Daniel Fishman and Elliot King have revised and issued the second edition of The Book of Fax: An Impartial Guide to Buving and Using Facsimile Machines, (Ventana Press, 1990). Reflecting the rapidly changing technology, this updated 150page paperback includes new chapters on fax cards and micro computers, cellular fax, desktop and plain paper units, as well as resource lists of vendors, publications and associa-

Notes Fishman: "The first phase of the fax revolution is drawing to an end. People are buying the hardware, but the creative phase is only just beginning." An example of this is the growing use of fax in publishing. Many newsletters, for instance, are faxed to subscribers rather than being delivered by mail.

There are online resources for fax wanna-bees as well. Look for file FAX.THD in Library 9, "Telephone Products," of the Consumer Electronics Forum (GO CEFORUM). It contains 118K of hands-on reports from forum members who own fax machines.

The Book of Fax (\$9.95) is available from Ventana Press, PO Box 2468, Chapel Hill, NC 27515; phone 919/942-0220. And, of course, they have a fax line; it's 919/942-1140.

# Monitor

Edited by Gayle Brown Contributors: Cathryn Conroy, Mike Pietruk, Lindsy Van Gelder, Dennis Willard

# CURRENT HITS

# by David Peyton

The libraries in CompuServe's forums are filled with thousands of files. The following are a few of the files uploaded in recent months. For a more up-to-date list, check the weekly "Uploads" columns in *Online Today* (GO OLT-3700). To locate a file that has been moved to another library, use the Browse command and a wildcard. For example, type BRO\* .ARC at any forum prompt.

# AMIGA ARTS FORUM

(GO AMIGAARTS)

OMEGA For the Amiga—A translation of the Unix game OMEGA, a Dungeons and Dragons-type game. At least 1MB of memory recommended. Explore the city, forest and dungeons. Fight the monsters and seek the treasure. File AOMEGA.LZH (325,634 bytes) in Library 4 (Games).

# APPLE ENTERTAINMENT FORUM

(GO APPFUN)

Rogue in Ilgs Format—The classic Unix game of Rogue ported to the Ilgs. Run from a text shell or ProSel for best results. Documentation included in AWP. File ROGUE.BXY (132,992 bytes) in Library 1 (Ilgs Games).

# APPLE PRODUCTIVITY FORUM

(GO APPRODUCT)

No Frills Utility—Version 1.2 of the Plain Vanilla Hard Drive Disk Utility, designed to let you format and partition hard drives connected to an Apple SCSI Card in any Ilgs, lle or 64K Apple II Plus. Program needs a slotted Apple II or clone and an Apple II SCSI Card with the Revision C ROM. Utility also will test and lock out bad blocks at the hardware level. File VANILA.BXY (33,024 bytes) in Library 7 (Utilities).

# **ASHTON-TATE FORUM**

(GO ATAPP)

Dictionary Converter—Custom Dictionary Utility for MultiMate 4.0. This conversion utility will convert all previous versions of MultiMate Custom Dictionary for compatibility with MultiMate 4.0. File CLMCNV.ARC (43,648 bytes) in Library 5 (MultiMate 4.0).

# **ASTRONOMY FORUM**

(GO ASTROFORUM)

All About Tonight—Version 2.5 of Tonite, a program to calculate the positions of the sun and moon, time of sunrise and sunset, twilight times, moonrise, moonset and other interesting things about the sky. Can be configured to your location. Automatically adjusts for Daylight Savings Time. Specific for IBM PCs and compatibles. File TONIT.EXE (78,988 bytes) in Library 7 (Astrocomputing).

# ATARI PRODUCTIVITY FORUM

(GO ATARIPRO)

Control Your Environment—Creative Computer Services' BOOT-MANAGER, an environmental controller for auto programs and accessories that lets you decide what runs and what doesn't. Features include one-key configuration selecting, default configurations, Help key feature, graphic configuration creator, protected files, custom configuration, documentation and more. File BOOTMG.LZH (30,080 bytes) in Library 6 (ACCs Setups).

### ATARI ST ARTS FORUM

(GO ATARIARTS)

Spells at a Glance—Spells, a full graphic and text chart of the most common 26 spells used in *Dungeon Master* and *Chaos Strikes Back*. This file is a CDK file, the format for Calmus. The fonts used are Old English, Times 50 and Chancery. File SPELLS.ARC (33,848 bytes) in Library 3 (Game Data Files).

### COMPUTER TRAINING FORUM

(GO DPTRAIN)

Computer Course Outline—The outline of a four-hour "Introduction to IBM PCs and MS-DOS" course. This is part of the Computer Training Forum Public-Domain Courseware effort in which forum members volunteer to prepare outlines ranging from one to eight hours in length. File PCINTR.4HR (4,510 bytes) in Library 8 (DPTRAIN Thinktank).

### CONSUMER ELECTRONIC FORUM

(GO CEFORUM)

Satellite Dish Director—A program for MS-DOS computers for aiming your satellite dish. Menu-driven and easy to use. File SATLOC.ZIP (32,369 bytes) in Library 8 (Satellite Systems).

# **EDUCATION FORUM**

(GO EDFORUM)

Spelling Help—A set of three related programs developed for use in a university writing laboratory. Spell is a complete tutorial program that combines detailed information on spelling rules and sound-spelling correspondences with exercises. Quickspell, a tachistoscopic program, and Anagrams, a scramble word game, are both based on lists of the most frequently misspelled English words. Self-extracting archive file SPELL.COM (39,037 bytes) in Library 2 (Software).

# **GAMERS' FORUM**

(GO GAMERS)

New Shooting Gallery Game—Version 1.1 of Shooting Gallery from Nels Anderson. IBM PCs with mouse, MCGA or VGA required. Combination of graphics, online help and full documentation. Options for practice with six different ranges from birds/bells/cans to skeet to quick-draw. File SHOOT.ZIP (77,239 bytes) in Library 7 (Action/Arcade Games).

# **GOOD EARTH FORUM**

(GO GOODEARTH)

Gardening Database—A menu-driven gardening database program for IBM PCs and compatibles to assist gardeners in keeping records about crops, including varieties planted, time of seed sowing, planting and harvesting dates, spacing and fertilization with space for hints, results and harvest notations. File GARDEN.ARC (140,935 bytes) in Library 2 (Vegetable Gardening).

# **GRAPHICS SUPPORT FORUM**

(GO GRAPHSUPPORT)

It's CompuShow Time—A new version (8.10a) of CompuShow, a high-speed, full-featured graphics display system for GIF, RLE, MacPaint, PC Paint, PC Paintbrush, Dr. Halo, EGA Paint and ColoRix graphics on the IBM PC, PC-XT, PC-AT, PCir, PS/2 and compatibles with Hercules, PCjr/Tandy, CGA, EGA, MCGA, VGA, "Super-VGA," or 8514/A adapter. File CSHOW8.EXE (82,117 bytes) in Library 3 (Decoders and Encoders). File CSHOW8.DES (13,687 bytes) in the same library is a brief description of the program including changes incorporated into the new version, as well as upgrade information for registered users.

# **IBM HARDWARE FORUM**

(GO IBMHW)

Wandering Clock—ScreenSaver, a TSR that blanks the screen after a period of inactivity. After blanking the screen, the utility displays a clock on the screen and moves it randomly. The screen will be restored once the user presses the key, moves the mouse (if installed) or a program writes to the screen. Two versions of the program are included—a CGA/EGA version and a monochrome version. File SCRNSA.ARC (4,224 bytes) in Library 3 (Video [H]).

# **IBM NEW USERS FORUM**

(GO IBMNEW)

Much Ado About Nothing—Hard at Work, a program that ties your computer up with what appears to be a very important task while you relax. You can choose from seven official-looking jobs or the program will pick one at random. If someone tries to interrupt the program, the computer warns with a beep and flashes a Danger message. The imaginary work continues until you push the right button to stop it. File HAWHAW.ZIP (99,328 bytes) in Library 6 (General Fun and Games [N]).

# PC VENDOR A FORUM

(GO PCVENA)

BBS Test Drive—A test drive of WILDCAT!, the eminently successful bulletin board system from Mustang Software. WILDCAT! is a full-featured system that supports multiple file and message areas, external file-transfer protocols, such as ZMODEM, PCKermit, YMODEM-batch and more. This test drive does not include Door support. However, all other features are operational. The file WCAT1.EXE (331,998 bytes) contains the primary program. The file WCAT2.EXE (238,382 bytes) contains menu and display files as well as all the utilities. Both files in Library 9 (Mustang Software).

David Peyton co-authored How to Get the Most Out of CompuServe, now in its fourth edition. His CompuServe User ID number is 76703 244.

# AMIGA ARTS FORUM

(GO AMIGAARTS)

Amiga Text Editor—TEXTED, a former commercial text editor released by its author, Michael Sinz of MKSoft, as a shareware program for the Amiga. It has pull-down menus, but also offers keyboard support for most features. File contains both editor and manual and can be used as a replacement for ED. Based on EMACS. File TEXTED.ARC (48,128 bytes) in Library 10 (Applications).

## COIN/STAMP FORUM

(GO STAMPS)

Basic Stamp Collecting—Four files to help you get started with stamp collecting. STAMP1.TXT (4,096 bytes) gives an overview of the hobby. STAMP2.TXT (7,678 bytes) includes a preliminary discussion of the use of catalogs. STAMP3.TXT (3,697 bytes) presents an overview of the abbreviations stamp dealers use. STAMP4.TXT (3,991 bytes) is a discussion of the stamp catalogs available. All in Library 1 (General Information).

# IBM APPLICATIONS FORUM

(GO IBMAPP)

Credit Lesson-An application for Lotus 2.01 or compatibles that shows how long it will take to pay off a credit-card debt by paying the minimum monthly balance. File CREDIT.ARC (1,536 bytes) in Library 4 (Personal

# AQUARIA/FISH FORUM

(GO FISHNET)

Filtration Help-Transcript of Steve Myer's talk on the practical aspects of biological filtration with undergravel and submerged rock filters, focusing on things fishkeepers can manipulate in setting up a biological filter system in tanks and ponds. File CONF38.TXT (23,229 bytes)in Library 8 (FISHNET Archives).

# **ASTRONOMY FORUM**

ATARI ST ARTS FORUM

(GO ATARIARTS)

(GO ASTROFORUM)

Star Chart-STARS version 1.5, an IBM-compatible program with EGA required, math co-processors supported. This program draws a realistic high-resolution star chart, 640-by-350 in 16 color. Includes 1,500 plotted stars, star name finder, constellation database and many functions. Formatted documentation included in file. File STARS.ARC (124,844 bytes) in Library 7 (Astrocomputing).

German Arcade Game-BOLO, a Breakout-type game

from Germany, will run on color or mono monitors. The

game has 50 levels of play, and instructions in English and

German. \*Note: The files must be in the main directory of

A for the game to work. Otherwise you will see a blank screen.\* File BOLO.ARC (142,578 bytes) in Library 2 (Games).

Free-Form Database-Instant Recall, a shareware freein Library 2 (Software).

# OLDIES BUT GOODIES

# by David Peyton

Following is a list of files uploaded to CompuServe forums more than a year ago that have won the right to be called "oldies but goodies," either by the recommendation of forum administrators or by the number of downloads each file has received.

### **EDUCATION FORUM**

(GO EDFORUM)

form database for the IBM PC or compatibles that runs as a TSR desk accessory. You can access data while in another program. Use it to store class notes, research notes, student scores, addresses, unfinished ideas, test sets. Retrieve by any word or combination of words in the data. Shareware from which the commercial program Memory Mate developed. File IR160F.ARC (91,961 bytes)

### **LEGAL FORUM**

(GO LAWSIG)

Tickler Program—A reminder program with perpetual calendar and editing. Automatically reminds you of important dates/events that you can enter up to one year in advance. Built-in reminder for most major holidays. Shareware. File REMIND.ARC (34,304 bytes) in Library 5, (Software).

# **BORLAND APPLICATION FORUM**

(GO BORAPP)

Phone List From Sidekick—A utility program to output the SideKick Plus Phonebook Database to a phone list format. Can be redirected to screen, text file or printer. File LIST.ARC (8,952 bytes) in Library 2 (Sidekick Plus).

### **GAMERS' FORUM**

(GO GAMERS)

Starship Game—The game of Starship for IBM PCs and compatibles. File STARSH.ARC (48,256 bytes) in Library 7 (Action/Arcade Games).

Bug Getter-A Centipede-like game for IBM PCs and compatibles. File CENTIP.ARC (12,160 bytes) in Library 7. (Action/Arcade Games).

# MACINTOSH ENTERTAINMENT FORUM

(GO MACFUN)

Asteroids Game-Star 'Roids is a shareware Asteroids game with all kinds of features, including a black hole and guided missiles. File ROIDS.SIT (91,008 bytes) in Library 2 (Arcade/Action Games).

# COLOR COMPUTER FORUM

(GO COCO)

Universal Utility-KDSK version 2.7, KDSK Disk Utility, the all-in-one disk utility, features include sector editing, sector dumps in ASCII, Hex or both. Formats disks, sorts files, fast backup, copy and kill routines, analyzes disks, does track reads and displays everything (including control bytes), uploads from tape, encrypts/decrypts files, has database to keep track of files and disks, easy disk crash recovery. File KDSK.BIN (25,008 bytes) in Library 8 (Application/Utility).

### HYPERTEXT FORUM

(GO MACHYPER)

Pre-1980 TV Quiz-TV Trivia Master, a HyperCard trivia game about television before 1980. Contains 520 questions about television roles. File TV (53,120 bytes) in Library 2 (Games).

# MACINTOSH PRODUCTIVITY FORUM

(GO MACPRO)

Diagnostic Aid—Mug Shot 1.0, a diagnostic aid for the product developer. Mug Shot produces a Rap Sheet listing vital information about your Macintosh to help the developer find a cause for any problems. Mug Shot is free for personal use. File MUGSHT.SIT (22,472 bytes) in Library 7 (Utilities).



# Think Globally, Connect Locally

An international community has blossomed online, and all signs indicate it's only the beginning.

A classic question keeps popping up on forum message boards, the CB Simulator and EasyPlex. One CompuServe member casu-

ally asks another: "By the way, where are you located?" Five years ago, prevalent answers were: San Francisco, New York, Chicago, Boston, Miamior maybe Toronto. Today, don't be surprised if one or more of your online comrades is kibitzing from Melbourne, Milan, London or Bangkok. When asked about his whereabouts, an entrepreneurial member in the IBM European Users Forum gave a global answer: "I am in Paris, Montreal and Tokyo, because that's where my offices are located." In another corner of CompuServe, a new Practice Forum member from Turkey was inundated with electronic welcomes from members in North America, Europe and Japan.

CompuServe members everywhere are benefitting from this more cosmopolitan online environment. For instance, Hideki Michihata of Kyoto, Japan, a "cultural ambassador" in CompuServe's Foreign Language Forum, uses the online exchanges to tweak his English while teaching others Japanese. Cliff Nighy of Auckland, New Zealand, has discovered CompuServe members' universal "good neighborliness." Nighy sent an urgent electronic message to a stranger in Sweden for assistance in reaching his son in Europe—and got help within 24 hours. (Stories about Michihata, Nighy and other CompuServe members from differ-

ent parts of the world begin on page 14.)

These and other intercultural exchanges have materialized as CompuServe continues to expand its borders—forming licensing and distribution agreements with companies worldwide—to reach potential information service users many thousands of miles away from CompuServe's Columbus, Ohio head-quarters.

At the same time, the availability of advanced technologies, deregulation of telecommunications in many countries and other political changes are paving the way for more international growth. For example, telecommunications is one of the key issues facing leaders of the European Community as they create a single European market by 1992.

Without a doubt, "the future of this industry lies in linking the world's sources of information and making them available in a way that doesn't intimidate the user," says CompuServe President and Chief Executive Officer Charlie McCall.

"While online services continue their steady growth in the domestic market, I expect to see more US information providers availing themselves of the opportunities overseas," says McCall. "Businesses and individuals worldwide are seeking a reliable, affordable means of international data communication."

Easier and more cost-effective access to CompuServe and local customer support are among the benefits of CompuServe's international service expansion agreements for members. Unlike US-based users, international members have not been able to dial a local telephone number and find a CompuServe opening menu greeting them. Instead, they have had to find their way through

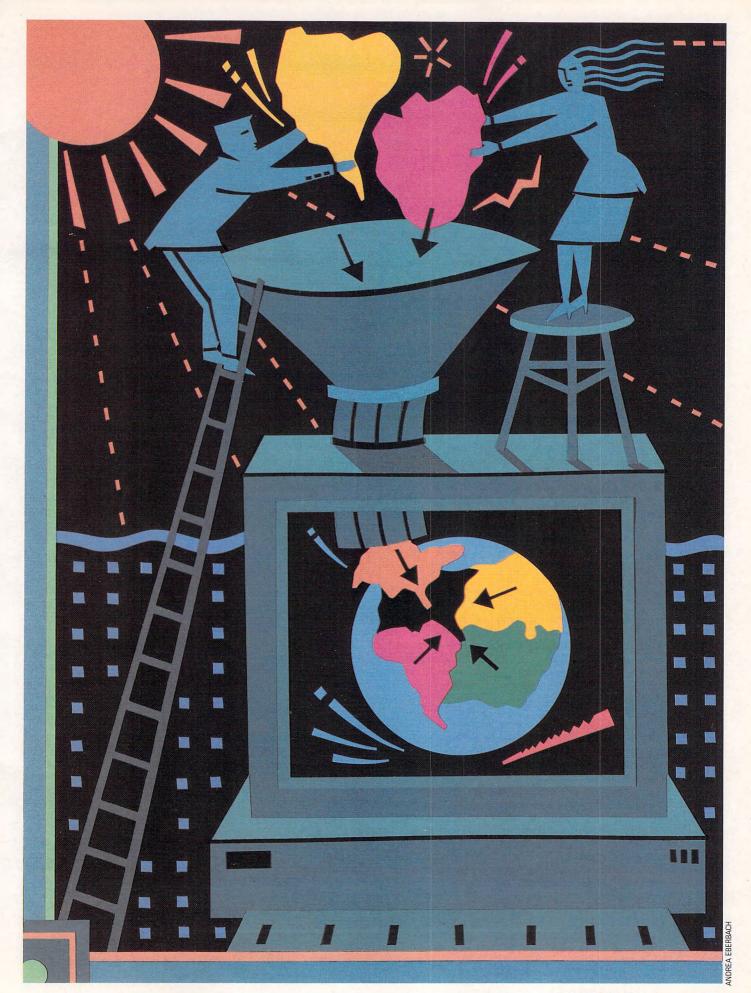
# **FEATURE**

CM's Cover Story:

New Online Zeitgeist

Forum Hotbeds for International Activity, p. 13

Making European Connections, p. 16



foreign communication systems to Compu-Serve's mainframe computers.

Some of these international agreements also include provisions for country-specific or region-specific versions of the CompuServe Information Service, a concept that Paul Saffo, research fellow at The Institute for the Future, in Menlo Park, Calif., sees as vital for the future. Rather than the infamous "global village" communications scholar Marshall McLuhan foresaw more than 20 years, we are becoming many global villages, according to Saffo.

"We're seeing a resurgence of cultural and ethnic identities at the same time national boundaries are falling," he says, "indicating a need to give the end user the option of communicating in his or her native language." In Japan, the local service, called NIFTY-Serve, is based on the CompuServe model, but the information and online discussions are in Japanese. In Taiwan and Europe, plans are under way for services tailored to the languages and interests of the members in those areas.

# Linking up Western Europe

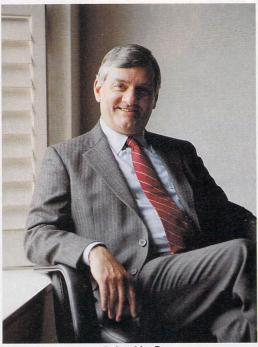
As the 1992 unification of the European Community progresses, the EC is assuming many functions previously performed by national governments. When a European Community official was asked who would establish telecommunication standards, he replied without hesitation, "We will."

The Commission of the European Community is pushing for a totally deregulated telecommunications environment in Europe by 1992. Earlier this year, the European Community member countries adopted a common approach to a directive making it easier for private companies to access public telecommunication networks. It should enter into force this summer.

Meanwhile, European industrial leaders are taking an even larger perspective. Italian industrialist and head of Olivetti Corp. Carlo De Benedetti commented earlier this year, "European industry leaders have the same challenge as the continent's political leaders. They must create a European industry based on a global network."

The European computer market will grow by 20 percent to 30 percent in 1990, according to Compaq Computer Corp.'s estimate. Industry research firm Frost & Sullivan predicts the European market for online database offerings, mainly used by business people, will mushroom 86 percent from \$3.7 billion in 1989 to \$6.9 billion by 1993.

CompuServe plans to be at the forefront



Extending Japanese relationship: Ryan

of these developments. In late 1988, Compu-Serve signed a joint-venture agreement for distribution of the CompuServe Information Service in Europe and for development of local country services based on the Compu-Serve model in the United Kingdom, Switzerland and other European countries. Compu-Serve's business partners are Tele Columbus of Baden, Switzerland, and Radio-Schweiz, of Berne, a division of Tele Columbus.

The first stage of the agreement, rolled out earlier this year, greatly reduces communication costs for CompuServe members in Europe, and provides for local customer support. (See "At Your Service in Europe" on page 16 for more details.)

Initially, the computer center in Berne will simply act as a switching center, forwarding calls originating from all over Europe to CompuServe hosts based in the United States. By 1991, administrative systems for European users will be moved to computers in Berne, as will services having a European slant, such as forums operated by computer users groups located there, according to Jim Ryan, CompuServe's director of international marketing and support.

US-based members will be able to access facilities provided on European computers and vice versa, resulting in a globally networked information service better able to cater to local needs.

A major benefit for European users will be support for eight-bit characters in Compu-Serve Mail and forums, says Andrew Gray, general manager of CompuServe/Forum in the United Kingdom. French and German users will be able to enter and read messages using the full-character set of their languages, including extra characters and accent marks such as umlauts and circumflexes.

Eventually, some of Radio-Schweiz's reference databases, currently distributed as DataStar, will be made available through Compu-Serve. Both CompuServe and Radio-Schweiz are also developing a new user interface, pioneered in the CompuServe Information Manager software package, to provide easy access to these databases through the CompuServe Information Service.

For members in Europe, the recently established IBM European Users Forum is a welcome addition. Here they can exchange messages with people who used to be scattered over a variety of forums. This forum, led by sysops Earle Robinson and Don Watkins, is a good place for European members to find IBM PC-specific help.

# **Expanding in Asia**

Industry analysts speak of the economic revolution unfolding in the Pacific Rim and agree that Japan is out front in business ventures and investments. The technological potential of Asia's "four tigers"—South Korea, Taiwan, Singapore and Hong Kong—as increasingly formidable players in the 1990s is also recognized in the Japan Economic Journal and Megatrends 2000.

In Japan, about 1.7 million personal computers were sold in 1989, and for 1990, that number is expected to be 2 million, with sales of 32-bit personal computers and laptops growing the fastest, according to the *Japan Economic Journal*. The total number of PC users in Japan is more than 5.5 million, says Mitsuru Sugaya, Japanese computer expert and author. Modem sales have increased from 60,000 in 1986 to about 200,000 in 1989.

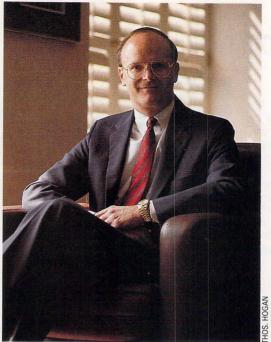
A common interest in producing a service for the substantial Japanese market led Nissho Iwai and Fujitsu Ltd. to form a joint venture in 1986, creating Network Information Forum (NIF). NIF's service, called NIFTY-Serve, is a Japanese-language online service based on the CompuServe Information Service model and developed under a license granted by CompuServe. With more than 100,000 members, NIFTY-Serve is expanding by 10,000 per month. About 30,000 of those members in Japan are also CompuServe members. NIF also provides marketing and customer support in Japan for the CompuServe Information Service.

Through Fujitsu's FENICS network and the CompuServe node in Tokyo, CompuServe members in Japan can communicate more easily and cost-effectively. The hourly surcharge of \$30 or \$17 (depending on the access location and method) is automatically added in with CompuServe connect-time charges.

A gateway arrangement now permits Japanese CompuServe members in the United States and NIFTY-Serve members in Japan to communicate with each other in Japanese.

In response to NIFTY-Serve's success and growth projections for the future, Compu-Serve recently extended its relationship with NIF. "After three years of successful cooperation, combined with NIF's willingness to invest significant resources to achieve a high level of success in the Japanese marketplace, CompuServe felt comfortable expanding this relationship to provide for licensing and distribution agreements in other major Asian countries," says Ryan.

The first such licensing agreement is with the Taiwan Telecommunications Network Services Co. (TTN). McCall believes TTN will be "a valuable partner and an important player in the rapidly growing information services industry in Taiwan." TTN was established in



Unique cross-cultural exchanges: McCall

1989 to provide value-added network services to information providers and users in Taiwan. Its businesses include information storage and retrieval, voice and data transmission, electronic mail and word processing.

The licensing agreement granted by NIF

permits the development of a Taiwanese online information service based on CompuServe and NIF technology, and grants the right to market both the CompuServe Information Service and NIFTY-Serve in Taiwan.

CompuServe's partnerships with Radio-Schweiz and NIF, and NIF's new agreement with TTN reflect CompuServe's international expansion plans, says McCall. "The benefits to our members are enormous. By ultimately providing gateways between the Asian services and our European services, we can offer members a unique cross-cultural exchange of information and ideas."

Explore. There is a world awaiting you.

John C. Ausland, a retired American Foreign Service officer in Oslo, Norway, and a contributor for The International Herald Tribune, writes frequently about computers and foreign affairs. His CompuServe User ID number is 73240,2704.

# Networking Around the World

As the number of international CompuServe members increases, worldwide participation in CompuServe's forums is growing. Certain forums and services are especially good places to find international members and US-based members who enjoy the cultural exchange.

Practice Forum. CompuServe's welcoming forum for new members now has a section for questions of special interest to international members. Topics might range from finding local telephone exchanges in Belgium to making adjustments for international keyboards in East Asia. In addition, the Practice Forum, which is free of connect-time charges, is an ideal environment to learn how to read and compose messages, upload and download files, and more. GO PRACTICE

IBM European Users Forum. New to CompuServe, this forum is for European members with IBM or IBM-compatible computers. Members will find colleagues with similar modem configurations and software needs. This is the place for questions about keyboard drivers, foreign characters, multilingual user problems and more. GO IBMEUROPE

TAPCIS Forum. Members exchange tips about using TAPCIS, an automated program for IBM and IBM-compatible users. Section 6 is dedicated to international TAPCIS users. The talk isn't always technical, though, as members initiate a thread with a technical question and then naturally stray to discussions of culture, background and experiences. GO TAPCIS

Travel Forum. Regular and sporadic travelers alike exchange ideas on the best places to go, the most inexpensive or extrava-

gant ways to get there, and where to stay, dine and sightsee. Eight of this forum's 14 sections are dedicated to international venues. Forum members include nationals in-country and Americans abroad who share tips, such as how to find a hidden restaurant on a side street in Paris, a place where nearly all the diners speak French or a pleasant hotel room in Florence. GO TRAVSIG

Foreign Language Forum. The next best thing to being in Italy is exchanging messages with someone who resides in Rome and knows the difference between a transitive and intransitive verb. Messages in this forum appear in Italian, Spanish, French, German, Slavic, Esperanto, Japanese, English and more. And often members are communicating in their native tongues. International members also are able to brush up on the grammar, idioms and syntax of their second language, English. GO FLEFO

CB Simulator. In CB, a real-time meeting place, international members use the 36 channels for ongoing conversations with other members. Three channels—Habla Espanol, The French Connection and The Summit—are especially designed for international discussions. GO CB

Other Forums and Services. The list of forums and services frequented by international members continues to grow. For example, international members use the Nantucket (GO NANFORUM), Novell (GO NOVELL), Microsoft (GO MICROSOFT), Lotus (GO LOTUS) and WordPerfect (GO WPSG) Forums because those software products are used worldwide.

Not every forum frequented by international members has a special section, but that isn't stopping anyone from joining in the fun. Watch What's New for future announcements of international sections.

—Dennis Willard

# The Ambassador from Nintendo



by Douglas W. Jackson

Like the electronic beings in the video games he has helped create as a member of Nintendo's R&D team, Hideki Michihata never seems

to run out of energy. Not only does the 30-year-old Kyoto native serve as the English Forum sysop on Japan's NIFTY-Serve network, he's also an active member of CompuServe's Foreign Language Education Forum (FLEFO). "I spend most of my free time using telecommunications," he says. "Fortunately, my wife realizes that it's not like playing

golf. I'm pursuing a goal."

That goal—learning English—is the reason Hideki started the forum on NIFTY-Serve. "Someday I hope to work overseas," he states, "and once you get out of this small country, English opens opportunities. English also lets me speak frankly—something that's hard to do in Japanese. Because I wanted friends I could talk to about English, about a year and a half ago I asked NIFTY-Serve to help me set up a forum."

His duties as sysop vary a little from those of sysops on CompuServe. "On NIFTY-Serve, old messages don't disappear as new ones come in. So my main job is to eliminate any strange or obscene ones and save the rest in our library. We've got 4,000 members, so

there are a lot of messages.

After I joined CompuServe a year ago, I accessed several forums—Travel, Comics and Animation, Human Sexuality, and a few others—and then introduced these forums to the people on NIFTY-Serve. Anytime CompuServe starts new services, in fact, I tell NIFTY-Servers about them."

Hideki has made his presence known—and welcome—in FLEFO's East Asian section. His puckish sense of humor shows up in his messages and the electronic "faces" he adds, such as (^ ^) and (^,^). He's also quick to answer questions and provide explanations of how particular Japanese expressions are used, including pertinent examples. When a forum member recently asked about the word amai (which means "sweet" but has several interesting connotations), Hideki provided nine different sample sentences and their translations.

He has also started something called "Aesop's Fables in Japanese"—short stories he hopes will encourage people to learn Japanese. One, entitled "Shippo no nai kitsune" ("The Fox Without a Tail"), is about a fox that loses its tail in a trap. The fox tries to convince the other foxes that they would look more handsome and run faster without tails. Instead of agreeing, the rest of the foxes thank their tailless cousin for reminding them to be careful of traps. The moral? Kashikoi hito o



Helps others learn Japanese while he improves his English: Michihata

kantan ni damasu koto was dekinai (To fool wise people easily is impossible). For wise people trying to learn Japanese, it's also obvious that Hideki Michihata is a great linguistic resource.

Hideki wasn't always so knowledgeable about his native language, however. He points to a bookshelf crowded with reference works on Japanese. "For me, teaching Japanese is actually more difficult than if I were teaching English, because I learned how to speak Japanese naturally, without having to look up all kinds of words and phrases," he says. "I became interested in the *process* of learning Japanese when I started getting questions I couldn't answer."

Along the way, Hideki has been compil-

ing an electronic dictionary of English words, slang and idiomatic expressions, a project he says may take the rest of his life to complete. "People on CompuServe have really helped me out on it," he says. "When I post a question about English, I get answers back in 24 hours. People send me books and videotapes of American TV programs—I take a lot of the sample sentences for my dictionary from TV programs such as *The Cosby Show*, *ALF* and *Family Ties*. That's why I like to contribute to FLEFO—you're giving and getting."

For information about using NIFTY-Serve, contact NIFTY-Serve Customer Service in Japan at 03-221-7363.

Douglas W. Jackson is a free-lance writer and editor based in Tokyo. His CompuServe User ID number is 76004,2312.

# International Relations—1990s Style



by Rod Bicknell

Sitting at his PC-AT clone in Auckland, New Zealand, computer consultant Cliff W. Nighy decided it was time to start using

CompuServe. It had been several weeks since he'd learned that his son Simon's Swedish financée was lying in a cast with a broken back in Grenoble, France. During the confused call from Grenoble, Simon had been too distracted to give phone numbers, addresses or the name of the hospital.

Nighy had grown used to his son's wandering ways and irregular communications during the six years that Simon had crewed out of Auckland aboard a large Italian yacht. But this time, Nighy was worried.

After overseeing the 18-month rebuilding of a classic sailboat, the 75-foot *Royono*, in the British Virgin Islands, Simon had gone to Aspen, Colo., for a vacation before sailing the *Royono* across the Atlantic to its owner in St. Tropez, France. In Aspen, he met Kristin Bergander, and they decided to make the Atlantic crossing together. By the time they reached Puerto Rico, they were engaged.

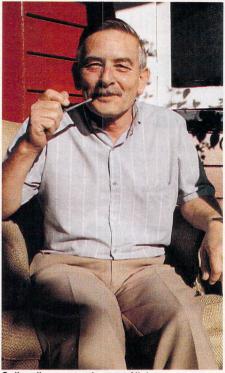
Simon and Kristin delivered the *Royono* and then went to Grenoble to para-fly in the French Alps. The day before Kristin was to return to work in Sweden, she landed in a tree, unwisely released her harness and dropped 30 feet to the mountainside, breaking her back.

Cliff Nighy hadn't met Kristin or her parents, nor did he feel like facing the challenges of a Swedish directory service. Believing that anyone using CompuServe must speak at least some English, he logged on and searched the Membership Directory for "Berg." This gave four listings of members in Sweden, including Jan Bergquist of Trollhattan, not far from Gotëborg, where Kristin's parents lived.

Nighy typed a brief message explaining his predicament and asking if Bergquist could contact the Berganders for the location of the hospital in France. "My reaction," says Bergquist, "was that I had to help, as it was obviously important to Cliff. It cost me only a few phone calls."

Within 24 hours, Nighy had a reply—Kristin had returned to Sweden the previous day via ambulance flight and was recovering at home. Meanwhile, Simon had gone back to Grenoble for 10 days. Bergquist supplied the contact information and added, "I'm glad to have been of help. You could compensate me by sending me a postcard—my children like stamps. Seriously, it took about 15 minutes and was no bother at all."

Under less frenzied circumstances, CompuServe offers Nighy "access to programming information through the manufacturers' forums. I especially enjoy the Ashton-Tate, IBM Software and PC MagNet Forums for their utilities." He adds, "Compu-



Online directory assistance: Nighy

Serve Mail's fax capability is cheaper than an overseas call for communicating with Europe and the Caribbean."

Bergquist, a Modula-2 and C programmer, also frequents the forums for programming ideas and enjoys PC MagNet.

Rod Bicknell of New Zealand is a New York-based correspondent for computer magazines in Australia and New Zealand.

# For Educators, E-mail is Academic

To anyone who has ever attended one, "academic conference" and "fast-paced" may seem to be mutually exclusive. Organizers of such gatherings know the truth: Scholarly meetings—especially international ones—require detailed planning and quick, constant communication.

Consider the following hectic schedule: In Punta del Este, Uruguay, 42 humanities scholars and other professionals met in November 1988 for five days of discus-

in November 1988 for five days of discussions on Latin American constitutionalism. Three months later, another international group was assembled in Chiang Mai, Thailand, to discuss Asian constitutionalism. During the next several months, similar conferences were held in Harare, Zimbabwe, and Berlin, Federal Republic of Germany. The final conference in the series was in November 1989 in Princeton, N.J.

Even more remarkable than the objective of the conferences—developing a working definition of the problem of constitutional-



ism—was the speed with which they were organized.

The driving force behind the conferences, which were funded primarily by a Ford Foundation grant, was Melanie Beth Oliviero, project director. Oliviero is an executive associate at the American Council of Learned Societies, a New York-based private, non-profit federation of 46 scholarly organizations for the advancement of humanities.

To keep participants and host sponsors in each of the countries informed, Oliviero often used CompuServe Mail to send messages to their telex machines. "We used CompuServe because the mail service in some of these countries is not reliable, but most Third World locations do have telex machines," she explains. "When we did use a mail service, we relied on private couriers that guaranteed delivery. As a non-profit organization, we're mindful of the least expensive way to do things. For short messages, invitations and travel information, CompuServe was more economical."

-Carole Houze Gerber

# All Fired Up About Financial Services



by Chris J. Walther

Wilfried Pausa, a deputy chief at one of Vienna's main fire stations, started investing in the US financial markets several years

ago. Initially, he had to use the services of local banks, which not only charged up to 20 percent of the transaction sum for fees but also took two to three days to execute the order. He thought there had to be a better way.

Things began to change for Pausa when he bought a Macintosh computer in February 1988. Money wise as ever, he ordered it in the United States at half the price charged by local retailers, and also received an introductory CompuServe membership. He immediately started checking indexes and prices online. And since Spear Securities Online (GO SPEAR) has been added to CompuServe, Pausa is now completing financial orders electronically.

Pausa, who serves a 24-hour shift every other day at the fire station, checks out the previous day's market in the morning (when it is still night in the United States). Until early afternoon, he then has plenty of time to contemplate whether or not to become active in the current day's market. "One can become addicted to all this," he admits.

After investing, he checks on his stocks in Quick Quote (GO QQUOTE) and his options in Option Pricing (GO OPRICE) several times a day and, in occasional jittery situations, even comes into the office on his free days to log on. However, he does not consider himself a gambler, but rather one who takes calculated risks. "When I visit one of Vienna's famous 'Spielcasinos,' I sell my



Fire chief uses CompuServe to make secure investments: Pausa

chips to other players without using them myself." he says.

Until three years ago, Pausa considered himself a fundamentalist trader and closely watched gold and oil stocks. But now, as markets have become volatile for the individual investor, he acts upon technical recommendations drawn by specialized programs that analyze the data retrieved from online sources.

"Normally, I gain when I follow the analytical results," he says. "If I follow my emotions and buy against those conclusions, I've already lost."

Because of financial considerations, Pausa has only sparingly used other services available on CompuServe. Network access costs from Vienna have been too high to allow him to participate in forum discussions on a regular basis or to download files from the libraries. Pausa has made short online visits to The Electronic Mall, though. In addition to computer equipment, he has ordered smoked salmon and fitness gear for his wife. "It works great, even across the Big Pond," he reports.

Since CompuServe is expanding in Europe, members in many European cities are beginning to benefit from lower-cost access. So, what is Pausa's next wish for CompuServe? "A forum for fire fighters to exchange experiences and technical information on an international basis," he says.

Chris J. Walther, an editor with the Swiss News Agency, Berne, Switzerland, is also a free-lance journalist. His CompuServe User ID number is 76013,217.

# At Your Service in Europe

CompuServe's European expansion brings a range of changes and enhancements to the service for CompuServe members in Europe:

Lower Network Access Rates. In the past, many CompuServe members in Europe have accessed via CSC Infonet, which has nodes in most major cities, at a cost of \$50 per hour above the standard CompuServe connect-time charge.

Alternatively, Europe-based members could join the public data network (PDN) in their country. This access charge sometimes ended up even higher than the cost of logging on via CSC Infonet, and there were usually additional membership charges and monthly rental fees.

Now, special access arrangements with several data network operators, combined with the installation of high-speed links between Europe and the United States, bring substantial savings to CompuServe members in Europe. All network access charges listed in this article are separate from CompuServe connect-time charges.

Members in the United Kingdom can use the Istel network, which has local nodes in 56 towns and cities. The network access charge through Istel is only \$9.50 per hour.

Switzerland-based members can log on via Telepac, also for only \$9.50 per hour.

Members in other European countries still can use CSC Infonet, but a new option reduces the cost. By typing CSF at the Center prompt instead of CPS, members can connect to CompuServe for \$20.50 per hour. The CPS option is still available, but it incurs a \$50-per-hour access charge.

Members can still access CompuServe via public data networks. However, if you use the Network User Address (NUA) of 228464510003, calls are routed to a main node in Berne, Switzerland. The network access charge applied to your CompuServe account in this case would be \$5.50 per hour. Even with the added cost of the

# Vive La France Info!



by Denys Bondeville

Tours of the wine cellars in the castle where Joan of Arc met Charles VII. Samples of prestigious Loire Valley wines. Gourmet treats at

the Poirault Pastry Shop in Tours. Ski holidays in the French Alps from Meribel to Val d'Isere. France offers many of the finer things in life, but it has not always been easy for tourists to find out about rates, hours, reservations, directions and other details before leaving for France.

Charles Fournier and Gery Sampere decided to change all that. These two French entrepreneurs have made a business out of helping travelers obtain detailed information and products from merchants throughout the country. In December 1989, encouraged by the success of France Telecom's Minitel service among French consumers, they decided to open their own database, France Info USA Inc. (GO FI) in CompuServe's Electronic Mall.

The personalities and experiences of Fournier and Sampere guide the service, which is written in English with some French expressions. Fournier, who brings extensive public relations and marketing experience for the high-profile companies of *Haute Couture*, seeks to present all the *raffinement* and prestige of the fashion world and the French *joie de vivre*. Business Partner Sampere, a New York University MBA, is the technical specialist, overseeing France Info's computer operations.

This mixing of prestige and technology is evident in France Info—from an electronic rendering of the Eiffel Tower on the opening page to "A Votre Service," which invites comments and questions at the end. In the



France Info provides 'precise, accurate information': Fournier and Sampere

many sections, including Travel & Entertainment, Art/Education/Culture, Shopping & French Products, and Business Services & Opportunities, the individual listings sport electronic response mechanisms. An announcement for La Cave Restaurant, for example, gives a brief description, plus address and telephone number and then an option to "Enter 0 to order a free brochure" for more information.

France Info is both "precise and accurate," according to Fournier, something the French official information bureaus in the United States cannot claim. To stay abreast of the latest products and marketing opportunities, Fournier and Sampere make frequent trips between their New York and Paris offices.

Like Fournier and Sampere, users of France Info travel frequently—at least eight times per year. The most common requests are for travel packages to mountain and ski resorts. Gastronomy tours in Burgundy and Bordeaux are also popular, as are requests for information on trips to Paris and the French Riviera.

More than a guide, France Info is a direct link to the people and culture of France, in an easy-access format. The almost daily updates of the database ensure another goal of France Info: to be an active link between French companies and US consumers. "It's not easy for French small businesses to penetrate the American market," says Fournier. "France Info offers to reach that elite market through CompuServe."

Denys Bondeville, senior editor of PC-Informatique, is a free-lance writer based in Paris. His CompuServe User ID number is 76004,2350.

PDN call to Berne, there are still substantial savings over the cost of using the international NUA for CompuServe connecting directly to the United States.

No Foreign Handling Fee. CompuServe users outside the United States and Canada have had a foreign handling fee of \$10 per month to cover the extra cost of administering their accounts. This fee has now been eliminated for European users. Note that the \$1.50 per month membership support fee will continue.

Local Support Offices. Customer Service representatives are now available in the United Kingdom and in Switzerland to answer members' questions. In the UK, call (toll-free): 0800-289-458. In Switzerland and other European countries call: 41-03-1-509-800.

Special Top Menu and Services. A special top menu is now provided for European members (accessible for other users who type GO EUR-1). The new menu routes members directly to relevant European access information and services, which include:

- GO EUROLOGON for a review of European log-on procedures.
- GO EUROPHONES for a list of European access phone numbers.
- GO EURORATES for details on access rates for Europe-based users.
- GO IBMEUROPE for the IBM European Users Forum. Other specialized forums are planned for the future.

Customized Sign-up Materials. European sign-up materials have been introduced, providing full details of the new log-on procedures and rates. Also included are all available access telephone numbers for European cities and local Customer Service numbers. These European sign-up materials will soon be available from computer dealers and other sources in Europe.

-Ben Knox, London

# DTPers: Armed and Dangerous

Desktop publishing revolutionized the business. But possessing DTP equipment is only half the battle.

Producing attention-getting publications takes more than an investment in a computer, desktop publishing software and a laser printer. It also takes creativity, solid writing skills and an eye for design. High-technology alone will not offer publishing success; you also have to know what you are doing, as many novice desktop publishers quickly discover.

Enter a whole new industry: people, publications and organizations that offer basic education in newsletter design, poster manufacturing or brochure writing—for a fee, of course.

Before you plunge into a series of continuing education courses or fill your bookcase with page layout blueprints, check out the collective wisdom of the experts in the Desktop Publishing Forum for just a few dollars of connect time.

If the Desktop Publishing Forum has a premise, it is that stupid questions don't exist. Thom Hartmann, the wizard sysop and desktop publishing entrepreneur who is the founder and owner of the Atlanta-based Newsletter Factory (see profile on page 20), says the forum is a place for novices and experts to get answers, share problems and relate "war stories." He believes the idea of desktop publishing has been heavily oversold. "The ads imply to the potential user that you don't need to go to design school or learn

typography; instead, just buy this \$400 program. But it doesn't work that way. Desktop publishing is a tool and not an instant solution. Just because you have the equipment doesn't mean you can do this any more easily than you could paint the Sistine Chapel just because you have a brush and a palette."

The Desktop Publishing Forum is one place to turn for expert answers. Kathleen Tinkel, one of the forum's assistant sysops and a writer and designer, says of the forum, "It's an effective shortcut for solving prob-

lems of design, hardware, software or project management. The generosity and enthusiasm of members for others never ceases to amaze me."

The forum offers desktop publishers at all levels of expertise a fast and accurate answer to such questions as: What is a font? Which clip art is best to buy? What kind of layout should I use for a five-column newsletter? Which typeface is the easiest to read?

Once the technical basics are mastered, the experts are also on hand to help you direct your fledgling business. Should you call yourself an advertising agency or a desktop publisher? How do you bill clients—by the hour, page or project? How do you handle unreasonable, last-minute changes by clients? How does the copyright law affect you?

"The field is changing so rapidly that even if you think you're an expert one week, in two weeks' time you won't be," says Hartmann. "You have to keep up. The forum offers ongoing expertise. We can tell you what's new, what works and what doesn't."

Desktop publishing is one of the by-products of high-tech development. Some might even call it a revolution made possible by the advent of the microcomputer and laser printer. Today, you could spend as little as \$2,000 in hardware and software and produce what would have required about \$45,000 in equipment just a few years ago.

"The growth of the desktop publishing industry is literally limitless," says Brad Walrod, another assistant sysop and the owner of a New York-based desktop publishing and consulting business. "Publishing is the nation's largest, non-government industry and the paperless society predicted by various pundits is not even close to being experienced."

Desktop publishing has democratized publishing. What used to be a trying, expensive process is now affordable and easily accomplished. It offers artistic flexibility, high quality and time savings.

It also offers complete control—or is that the greatest pitfall? As Mike Musick, an assistant sysop, jokes, "A chef can cover his mistakes with gravy and sauce, and a doctor

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Desktop Publishing: The Untold Story

Database Managers Defined, page 22

A Trio of New DBMS Support Forums, p. 23



Desktop publishing examples show variety of styles: Newsletters

can bury his. A lawyer can always appeal his errors, but a printer makes thousands of copies of his and spreads them all over the place!"

He says the most common error beginning professionals make is to accept jobs that are too large and to try to do it all themselves. He advises novices to start out small with a letter, a stationery design, a form or even a business card before moving on to a 30-page monthly newsletter or an annual report.

The strength of the Desktop Publishing Forum (GO DTPFORUM) comes from its independent nature. It is not "platform-specific." In other words, all types of computers and accompanying software are supported.

The forum's 16 libraries are a rich source of tools and materials for desktop publishers. Here, you can pick up a demo program or font, a text file explaining some of the more arcane procedures of graphics software and many public-domain programs.

Conferences are held every Tuesday at 9 p.m. ET, and are an excellent time for new-comers to get questions answered and meet the forum regulars. "It's casual but neat," says Hartmann. "That means there will usually be a topic and a moderator, but free-wheeling conversation is encouraged."

Recent conferences have covered such diverse topics as combating and circumventing sexism in writing, a debate over the merits of the IBM vs. the Macintosh, desktop publishing horror stories and successes, and copyright and trademark considerations.

Specializing in one aspect of the desktop publishing process—such as writing or type-setting or design—is one way to excel and not get burned. Team up with other experts in person or electronically and together you can produce a high-quality publication rivaling that produced by professionals.

Cathryn Conroy is a contributing editor of CompuServe Magazine. Her CompuServe User ID number is 70007,417.

# **Best Library Files**

Assistant Sysop Brad Walrod is the keeper of the files, and he recommends the following as the very best of the lot:

Two free XTensions for QuarkX-Press. The image tells you the type and location of a selected graphic; TextInfos tell you the name of the original text file for the selected text box, as well as the number of characters, words and more. FREEXT.SIT/binary (Library 5, Mac DTP Utilities).

Copyright and trademark discussion from a forum conference hosted by two attorneys specializing in intellectual property law. COPYCO.TXT (Library 8, Forum Transcripts).

Shareware Post-Script font for Ventura Publisher and Windows/Page-Maker users that offers character mapping as well as symbols and foreign language characters. DIEGO1.ZIP/binary (Library 9, Fonts).

\*Demo version of Enhance, an image analysis/enhancement application from Micro Frontier, that contains the demo, online help, palettes, feature outline and four sample images. ENHADE.SIT/binary (Library 12, Demos & Reviews).

Service Bureaus USA is a Hyper-Card stack listing nearly 300 desktop publishing service bureaus. SERVIC.SIT/binary (Library 14, HiRes & Printers).

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# The Kids Behind the Man

In 1978 Thom Hartmann was seemingly on top of the world. Happily married with

two kids, he was a partner in a successful advertising agency in Michigan. "I was making a lot of money, but I was dissatis-

fied with my life," he recalls. Then came the telephone call that changed the focus of his life.

A friend phoned from West Germany, telling him about his latest endeavor with a group called the Salem Foundation. This organization, devoted to establishing and maintaining loving group homes for severely abused children, needed Hartmann's help.

What he discovered when he arrived in

West Germany touched his heart and soul. Lending the Salem Foundation his consider-

able public relations and marketing skills, he organized an American concert tour featuring an orchestra of musically

gifted Salem children who had played in Europe to rave reviews. He booked them not in high school auditoriums, but rather in such renowned places as Lincoln Center, the Kennedy Center for the Performing Arts, the US Capitol and the United Nations.

Sitting at a dinner sponsored by conductor and cellist Mstislav Rostropovich and actress Celeste Holm after the Kennedy Cen-

ter performance, the founder of the Salem Foundation, Gottfried Mueller, asked Hartmann point blank, "Why don't you sell your business and do something worthwhile with your life?" And so he did.

He moved his family from Michigan to New Hampshire, and he and his wife, Louise, established and operated the New England Salem Children's Village, a haven for 18 severely abused children, consisting of four houses on 134 acres of land. Several years later, the Hartmanns left the Children's Village, which is still in operation today, in the capable hands of others and proceeded to establish similar homes around the world.

He set up a refugee station in Uganda during the 1980 famine. With the help of comedian/social activist Dick Gregory, in 1981 he built a hospital in Africa that today treats 500 patients daily. And he established Salem Foundation homes in Bangkok, the Philippines and Peru.

In 1986, he moved his family, which now included a third child, to West Germany. Using that country as a home base, Hartmann spent much of his time traveling to remote sites of the world, gathering up abused children and offering hope, love and renewal to them through Salem Foundation homes.

Hartmann remarks at his timing. He was in Cairo the day Anwar Sadat was shot, in Manila the day Ferdinand and Imelda Marcos fled the country, and in Lima the day the presidential palace was bombed. He has also inadvertently found himself in the middle of a couple of wars.

One year later, the Hartmann family returned to the United States and established The Newsletter Factory in Marietta, Ga., a suburb of Atlanta. The company produces newsletters, including writing, design, layout, typesetting and mailing, as well as conducts nationwide seminars on desktop publishing.

Hartmann is still very much involved with the Salem Foundation. Last September he traveled to Budapest to offer assistance to refugees there, and he is always willing to jump on a plane at a moment's notice to travel where he is most needed.



COMPUTING

Uses his advertising abilities to save abused children: Hartmann

Ed Taylor just found the worlds greatest laser printer for \$850.

They said it couldn't be done. But here is the true story of how it actually happened.

Ed Taylor was in the market for a good laser printer. Of course he could always trek from store to store comparing printer capabilities and costs, or runmage under his bed for last summer's buyer's guide.

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Almost as fast as Ed could type in "laser printer" he had tracked down eight product reviews—including the buyer's guide he remembered from last summer (which actually ran in January).

Even if the article you want has just hit the stands, you're in luck. *Computer Database Plus* is updated with almost 5,000 abstracts and articles every month from current publications.

You can get by for just a few dollars by jotting down the article title, issue and date. But Ed decided to print out the entire article. Total cost: \$8.50.

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# So, What's a DBMS Anyway?

# Database managers are now more approachable than ever.

We all tend to view the world in terms of our own specialties. A dentist sees the world as a collection of molars, an engineer sees it in terms of mechanical contrivances, and a database designer sees the world as clusters of organized information. There is a lot to be said for the last view. We all exist in countless databases: the telephone directory, junkmail lists, automobile license files, street address files, credit card files, not to mention the files of the IRS.

Before the advent of the personal computer, databases were usually programmed in a third-generation language such as CO-BOL, in which applications were created instruction by instruction. Some databases are still programmed that way, but about 10 years ago, languages that are loosely defined as "fourth generation languages" began to appear.

The term "fourth generation language" tends to have a Humpty Dumpty quirk of meaning whatever the speaker intends it to mean, but generally these are high-level languages that use a few lines of code to accomplish what would take pages of code in a third-generation language.

Most of the popular database management systems (DBMSes) on the market use high-level languages for querying files, and therefore overcome the inflexibility of earlier programs. A packaged DBMS has at least four separate parts: a database engine, an application generator, a report generator and a screen generator.

As the name implies, the database engine provides the propelling power. It includes facilities for defining and naming fields, and defining the field type. For example, the field type might be all-numeric, alphanumeric, dollar or date; the variety of types depends on the DBMS design. The engine also contains edit and query capabilities. Recently, a standard known as structured query language (SQL) was developed to allow users to extract information by using an English-like series of commands. For example, a typical SQL query might be "SELECT L:NAME FNAME M:NAME ADDRESS CITY STATE ZIP PHONE FROM MASTER WHERE ZIP > 88000."

Even a user who has never written a database query can quickly grasp the syntax

and write valid queries with SQL. Many DBMSes now support SQL, to the benefit of users, who have only one language to learn instead of proprietary languages for each product they use. Databases that rely on

queries in a language such as COBOL lack the flexibility of SQL. Their users are at the mercy of the programming de-

partment when they want to make changes or write special queries, so languages such as SQL have been accepted enthusiastically by the user community.

Database queries are also aided by a technique known as Query By Example (QBE), which enables the user to construct a query by making menu choices. A QBE procedure leads the user through a series of menus listing field names and boolean operators to target the specific information without knowing anything about the structure of the database or the syntax of the query.

When database programs were coded from the ground up, they tended to be less sophisticated than today's DBMSes. The DBMS programmer has taken care of the program debugging; all the applications programmer must do is develop the file structure to fit. It's still possible to encounter bugs, but the chances of making serious errors that take hours or days to find are reduced considerably with a packaged program.

The sophistication of a packaged DBMS also has caused databases to evolve from hierarchical files to relational files. To illustrate the difference between a hierarchical and a relational database, assume you have separate personnel and payroll files. The personnel files contain employment history, positions held, education and other such information, but do not include a salary history. The payroll files contain deductions, exemptions and a complete salary history, but do not include any personnel information. With a relational database, the two files can be updated from separate screens and kept completely independent, but if they contain a common field, such as Social Security number, the files can be linked and reports prepared from information contained in each as if they were a single file.

With many DBMSes you don't need to be concerned about the actual programming language it uses because the DBMS itself

takes care of creating the database, screens and reports. Many DBMSes include an applications generator that enables you to create the database and define the fields without writing a single line of code. Applications generators use a menu-driven process to name the database and design its fields. The database is populated and revised with input screens that can be created by another tool, a screen generation program. Again, the DBMS takes care of writing the code from menu responses that the designer answers.

The final element of a DBMS is a report generator that provides facilities for extracting information from the database and printing it to screen, paper or file. The report generator provides facilities for entering

COMPUTING

SERV

headings, numbering pages and performing mathematical operations such as totaling rows and columns.

The variety of DBMSes on the market is mind-boggling. Some are free-form programs that don't restrict you to rigidly defined fields. They accept data in much the same manner that a word processor would, and information is extracted with a search function. This type of program is useful for storing recipes, classifying a book or record collection, or indexing abstracts of magazine articles

Another family of programs can be classified as "list managers." These are usually simple to set up, and may have predefined fields, reports and screens. They are handy for preparing mailing lists and replacing the popular Rolodex file. If the information you want to store will fit an index card, a list manager will probably fill the bill.

The third category is the full-scale DBMS. Within this category are a wide range of products. At the low-end are packages that restrict the programmer to the instructions and commands included in the package. High-end programs permit the programmer to link the system-generated code to a programming language for enhancing screens and writing procedures that the program's language cannot accommodate.

There aren't quite as many DBMSes on the market as there are snowflakes, but like snowflakes, no two are alike. The most popular programs aren't necessarily the easiest to use, and what may be overkill for one application will lack essential features for another. Information on many of the popular DBMSes can be obtained through CompuServe. (See box on page 23 for a list of forums that have sections supporting particular databases.) Where the program is not supported directly, information can usually be obtained in one of the general IBM or Apple forums.

Harry Green is president of Pacific Netcom Inc., a Portland, Ore., firm that consults with businesses on using office automation and telecommunications to improve productivity. His CompuServe User ID number is 70007.431.

# Database Vendors Come Aboard

# Fox, ACIUS and Oracle offer new customer support forums.

Three database vendors are new to the frontlines of the Information Service: Fox, ACIUS and Oracle offer members timesensitive, effective support through messaging, forum libraries and conferencing.

ACIUS Corp. produces 4th Dimension, a leading relational database package for the Macintosh. Once a subtopic on the Apple Vendor Forum, ACIUS now has its own forum (GO ACIUS).

Forum Administrator John Beaulieu sees the forum as a gathering place for a wide range of 4th Dimension users, including database consultants and developers. It's also a place where novices can exchange information.

A small California company, ACIUS is "expanding quite rapidly, and CompuServe is a big part of our technical support," says Beaulieu. "As we add new products, we expect usage of our forum to increase even more."

The forum supports the flagship product, 4th Dimension, which can be used to design a database to store text and graphics. Also, a new ACIUS utility, 4D Mover, allows a programmer to move layouts, procedures and files from one database to another.

Forum subtopics include:

News from ACIUS. Product announcements, news of updates and other company information are posted here. This is a "read only" area; it's not designed for exchange of messages.

**Technical support.** This area accounts for about 60 percent of all forum messages. Subscribers generally get a two-hour turnaround on answers to their questions. This is the place for technical discussions, rather than general chatting.

**Externals.** This section is for tips on external products, such as technical support for adding modules to 4D.

Consultant's area. Advertisements, general chatting and questions about consulting go into this message area.

Sales and support. This is the place to ask for demo versions and updates of 4D. Members get help from sales and customer service reps.

**Feature requests.** Ask for new features in future ACIUS products.

Connectivity and networking. This is the place to get information about networking 4D, which can be accessed simultaneously by several users over a network. **Developers' area.** This area is for 4D registered developers only.

### Fox Software

Fox Software is a 100-person-plus company in Perrysburg, Ohio, known for its fast, user-friendly database management packages for IBM PCs and the Macintosh. Until recently, the company was represented as a section in the PC and Macintosh Vendor Forums on CompuServe. Now it has its own forum (GO FOXFORUM).

The move to Fox Forum was justified by a growing volume of sales that in turn led to a more important role for CompuServe in Fox's product support plans. For example, about 200 messages a day were appearing in the old Fox section of the PC Vendor Forum before the shift, according to Forum Administrator Bart Hanline.

Among the company's database management programs, the flagship product is FoxPro, a dBase IV-compatible database manager for IBM PCs. Like other Fox products, it is known for its speed and user-friendly interface.

The forum offers message sections and libraries devoted to a variety of topics about

# **DBMS Forum Help List**

### SPECIFIC PRODUCTS

DBMS information is available in several CompuServe forums. The forums that have sections covering specific products are:

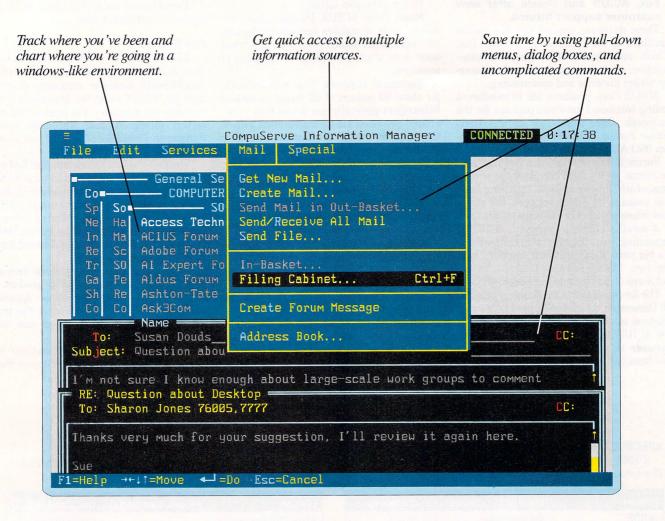
FORUM	PRODUCTS COVERED	GO COMMAND
ACIUS	4th Dimension 4th Dimension Mover	GO ACIUS
Ashton-Tate dBase	All dBase products	GO DBASE
Borland International	Paradox Reflex Reflex Mac	GO BORDB
Fox Software	All Fox software	GO FOXFORUM
Javelin/Express	Javelin Express	GO IRIFORUM
Nantucket Reference Center	Clipper McMax	GO NANTUCKET
Oracle	All Oracle products	GO ORACLE
Software Publishing	PFS/File	GO SPCFORUM

# **GENERAL PURPOSE**

You also will find discussions on other database products in general purpose forums such as these:

FORUM	PRODUCT/MFG/MENU	GO COMMAND
Apple II/III Productivity		GO APPRODUCT
Apple Vendor A	File Maker III Claris Corp. Menu 14 DB Master 5 Stone Edge Menu 8	GO APVENA
Macintosh Productivity		GO MACPRODUCT
IBM Applications		GO IBMAPP
PC Vendor A	PC File III Buttonware, Menu 1	GO PCVENA
PC Vendor B	PhDbase Korenthal Assoc., Menu 3 @Base Personics Corp., Menu 4	GO PCVENB
Windows Third Party Applications A	Superbase 4 Superbase Z Precision Inc. Opus I Roykone Software	GO WINAPA
Windows Third Party Applications B	Win Trieve The Whitewater Group	GO WINAPB

# Easydoes it.



Welcome to the wonderful — and wonderfully easy — new world of CompuServe. It's called the CompuServe Information Manager, and it's a program designed to let you use the power of your MS-DOS personal computer while you take advantage of the resources of CompuServe.

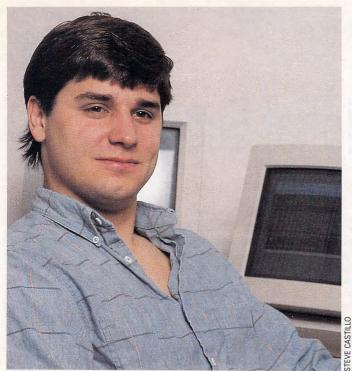
The CompuServe Information Manager is easy to use because it lets you utilize a windowed PC interface with pull-down menus and

dialog boxes. It even allows you to do several tasks (on CompuServe) at the same time.

Plus, we've made it easy to get started, too. The CompuServe Information Manager, and its Users Guide, is being offered to CompuServe members only at an introductory price of \$24.95—and that includes a \$15.00 usage credit. To order, just type GO ORDER at any! prompt.

And you'll learn how the CompuServe Information Manager can put you on easy street.

**CompuServe** 



4th Dimension users gather in forum: Beaulieu

FoxPro and the company's other products, FoxBASE+, FoxBASE+/Mac, networking versions, FoxGraph and development tools. There are also special sections for corporate users and developers.

Throughout the forum, you'll find general information, special tips and tricks, sample files, programs and other information provided by Fox and forum members. Company technical support and marketing reps moni-

tor the forum daily to answer questions, handle customer needs and accept user feedback.

Member interaction is an

important part of the forum's value to customers. The technical support arising from hundreds of users exchanging their experiences is viewed as a plus by the company. Also, users are assured that their feedback reaches the eyes of top management at Fox.

The flagship product, FoxPro, is for two kinds of users, according to Hanline. One is the businessperson who buys a package mainly to keep track of a mailing list because of its easy user interface.

The other user is technical in nature, a programmer who creates applications for users, such as an accounting system that follows dBase language and standards.

FoxPro is a more powerful upgrade to the company's original product, FoxBase. FoxBase+ is available in versions for the IBM PC and the Macintosh, as well as in single-user and multiuser versions.

It seems logical that the world's largest supplier of database management software and services should have a forum on Compu-Serve. Now Oracle Corp. does (GO ORACLE).

Forum Administrator Bob Bramley says, "The major benefit for us is that all our customers will have the opportunity to communicate with each other and share experiences. This also benefits them and brings



Oracle communicates with customers: Bramley

greater understanding of the product. Everyone wins. It's an additional mechanism for them to get support directly from us."

### Oracle

COMPUTING

Oracle is continuing its policy of two-tier support via a telephone hotline, which users can access 13 hours a day. They also can buy extended support on a toll-free line.

The company also has its own online

bulletin board, called the online support system. "It is a system under which we track all incoming calls to our sup-

port center. As part of that, it has a bulletin board. All supported customers can log on," Bramley says.

The new CompuServe forum, with its messaging, libraries and conferencing potential, is an extension of these services.

Bramley points to the fact that Oracle was the first vendor to base a product on IBM's SQL database language, which subsequently became an industry standard. "We were at the cutting edge of technology," he notes.

"Our major strength is that we run our database product in numerous hardware environments, from mainframes to IBM PCs. Data can be distributed over several environments."

Oracle's principal product is its relational database management system. The company also develops and markets portable software products for applications development, decision support and office automation, in addition to complete families of financial and manufacturing applications products.

The company was founded in 1977 in Redwood Shores, Calif. It has offices in 42 US locations and in 90 foreign countries. Since 1986, Oracle's worldwide consulting organization has offered comprehensive software support services, from technical support and

education to onsite consulting and total systems integration. ◀

Michael Naver of Baltimore, Md., edits a newsletter advising corporate communicators and public-relations counselors on uses of new technology. His CompuServe User ID number is 70007,621.



# Cashing in on a Global Economy

# Prepare now for a world without economic borders. CompuServe can help you follow EC '92 and more.

help you follow EC '92 and more. The 1990s will undoubtedly be the decade

of economic globalization, of the dismantling of the world's national and economic barriers as we know them. In fact, a new world map is already in the process of being redrawn. Last year, Canada and the United States implemented a trade agreement that formally unites North America as a single market. And Australia and fellow ASEAN members met recently to explore the possibility of a single integrated market in the Pacific Basin.

For the 1990s, by far one of the most significant changes to occur will be in the integration of the European Community (EC), or "Europe 1992." This newly consolidated trading bloc will become the world's single largest consumer market, currently estimated at more than 320 million people—compared with 220 million in the United States, 260 million in the Soviet Union and 120 million in Japan.

While 1992 is the target date to

formalize the 12-member European Community's monetary and economic union, the process officially began on July 1, 1987. On that date, the Single European Act empowered EC members to "abolish all physical, technical and legal barriers to trade by 1992" and to create a single market to allow the free flow of goods, labor, services and capital among EC countries.

Since then the European Commission, the institution designated to propose and enforce EC legislation, has been busily carving out more than 300 proposed directives that will determine how companies in every industry of the EC will operate under the new economic unification.

Presently, almost half of the directives have been approved. The commission's overall strategic plan is to formulate proposals that promote fair competition and balanced trade and that establish a common policy of trade with countries outside the EC. Some of the directives on its agenda include:

- ► Elimination of customs duties and other import and export restrictions within EC countries
- ► Establishment of common customs tariffs toward countries outside the EC.
- ➤ Adoption of common agricultural and transport policies.
- ► Creation of a European Social Fund to improve employment opportunities within EC countries.
- ➤ Creation of a European Investment Bank to open up new capital resources and facilitate economic expansion.
- ➤ Creation of a single European currency to facilitate trade.

While these changes will undoubtedly benefit many American companies by opening up new markets and making it easier to do business overseas, many fear they may result in undue protectionism.

What's more, the economic consolidation in Europe will affect not only American businesses, it will also dramatically impact the world of investing. Current investment strategies will have to be re-evaluated to take advantage of the opportunities these changes will create.

Whatever the prognosis for EC 1992, one thing is clear: To be successful in the 1990s, it will be critical for American businesses and investors to keep apprised of the policies that

# **MONEY MATTERS**

### CM's Money Matters Credo:

To the casual and serious investor alike, we vow to provide sanity when the bulls and bears run wild; indeed to explain and inform. Where money matters, we'll provide the means of attaining discretion and thus the better part of financial valor.

Whole Earth Economics

Investext European '92 Reports, page 28

Cornering the Market on Stock Investment Data, page 29



# **EC Daily Bulletin**

Reuters recently became the exclusive worldwide electronic distributor and marketing agent of Agence Europe's *Europe*, a daily bulletin to provide comprehensive coverage of the European Community (EC) and its institutions. The Bulletin will be distributed over Reuters networks world-

wide (GO NEWS) and will cover the development of EC policies and regulations relating to the 1992 market integration. Reuters is the largest non-Belgian agency presence in Brussels covering EC affairs and legislation.

-JR

are unfolding in the European Community in order to develop strategies to compete in what is soon to be the world's largest and most powerful consumer market.

CompuServe offers members a variety of ways to track the rapidly changing European market. Perhaps the most comprehensive source for business analysis is Investext's EC 1992 information. With this unique new set of online reports, users can monitor developments in EC affairs and legislation as they happen. The proprietary information is comprised of an exclusive collection of research reports and in-depth analysis from the consulting division of Deloitte, Haskins & Sells, one of the world's largest business advisory organizations.

Deloitte maintains a staff of consultants in its European Communities Office in Brussels to report on EC legislation and to provide consulting services to corporations developing 1992 strategies. The Brussels office works closely with EC specialists in Deloitte's New York and Washington offices.

Deloitte, Haskins & Sells produces reports on 38 business subjects and industries, and updates them every three weeks, or as legislation changes. Industries include banking, tourism, agriculture, telecommunications, pharmaceuticals, aerospace, chemicals, media, automotive and financial services. Business topics include trade relations, taxation, competition, consumer affairs, EC institutions, standardization in the European Community, and the social dimension of the internal market.

For a broader discussion of European Community developments and institutions,

with more of a focus on how the changes affect American industry and investment as a whole, there are a group of reports in Investext that can be accessed by electing to do an Industry Search and entering "Economic Forum" at the Industry Search prompt. These reports range in length from five to more than 150 pages and originate from sources such as Morgan Stanley & Co., Shearson Lehman Brothers, Prudential-Bache, and Kidder, Peabody & Co. Inc.

And if that's not enough, you can start your own European Community clipping file in the Executive News Service to catch upto-the-minute news of EC developments over the international wires.

Jenifer Rueff is a free-lance business writer and marketing communication consultant based in Chicago.

# Scanning the Globe

Are you looking to participate in the global markets of the 1990s? Many influential players in the international market are not publicly owned companies but are privately held or government controlled operations. Even for those on which stocks are traded, it may be difficult to find hard data as most aren't followed by domestic securities analysts.

D&B-International Dun's Market Identifiers (GO DBINT) can be your gateway to learning about the lesser as well as major players that make up the world's increasingly interlocking economy.

D&B- International Dun's Market Identifiers is more than a global version of an electronic telephone book. In addition to addresses and telephone numbers, references include cable or telex numbers, type of business, standard industrial classification (SIC) codes, size by number of employees, and sales expressed both in local and US currencies. You'll also discover who is the chief executive, and parent company and corporate relationship information, which facilitates direct contact. The directory is cross-referenced, permitting searches by entering the company's name, geographic location, product or service offered, number of employees or sales as your screening criteria. Multiple factors may be specified and defined to allow for narrowly targeted scans.

Tom Croarkin, Dun's marketing manager of online services, says the database is rapidly expanding, with 1.7 million entries representing 150 nations spanning every continent. "Our heaviest concentration at the moment is Western Europe," he says. "We carry about 300,000 United Kingdom, 220,000 French and 55,000 Swiss references. We're working hard to increase our listings in the Pacific Rim and Australia and certainly will now be moving into Eastern Europe as those markets open up.

"Our customers use the information we furnish in a variety of ways," says Croarkin. "The most widely employed application is company intelligence—attempting to uncover as much as possible on a specific firm and its competitors in a market or field."

Gathered by a division of Dun and Bradstreet through interviews and updated regularly with surveys and questionnaires, searches (which retrieve up to five names) cost \$4. Additional names (in groups of five) are priced at \$4. Full references, selected from the names, are priced at \$4.

-MP



# Investext Euro Report

The Investext Europe 1992 reports reflect the directives that will govern the European Community after 1992. Each one discusses the implications of those directives on companies doing business in Europe after 1992 and can provide crucial information not available elsewhere.

Europe 1992 reports are part of the large Investext database and are not stored separately in their own database. Rather, they are filed under 38 business and industry categories. Use the following technique to quickly and easily locate just the reports you need

Type GO INVTEXT and select Option 8, "Access Investext Reports by Topic," from the main menu. Press the Return key, and you are connected to Investext via Telebase Systems Inc. At the next menu, select Option 1, "Search by Topic." You are presented with a list of business subjects. When you choose Option 17, "Broad Search Topic," you are prompted to enter a keyword or phrase to describe your search. Type the following: EUROPE 1992 INDUSTRY AND PG=1

This will identify individual Europe 1992 industry reports from all 38 industries for which they are written. To retrieve an entire

report, note the six-digit report number listed in the display. Return to the Investext top menu and select Option 9,

"Access Investext Reports by Report Number." Enter the six-digit number of the report(s) you have selected. You will then see a list of the individual pages and a listing of the contents.

If you want to zero in on just one of the 38 industries, such as telecommunications, use this key phrase instead: EUROPE 1992 INDUSTRY AND PG=1 TELECOMMUNICATIONS

The 38 industries for which reports are written (and which can be used in key phrases) are: Aerospace, Agriculture, Banking, Biotechnology, Building Materials and Construction, Chemicals, Company Law, Competition, Consumer Affairs, EC Grants and Loans, EC Institutions, Energy, Environment, Financial Services, Foodstuffs, Higher

Education, Insurance, Intellectual Property, Media, Motor Vehicles, Pharmaceutical, Public Procurement, Regional Development,

MONEY

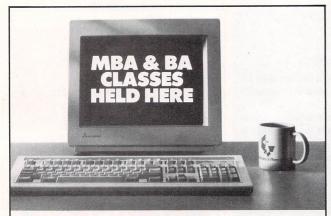
MATTERS

R&D/Information Technology, The Social Dimension of the Internal Market, Standardization in the European Com-

munity, Taxation, Telecommunications, Textiles, Timetable 1992, Tourism, Trade in the European Community, Trade Relations EC/Australia, Trade Relations EC/EFTA, Trade Relations EC/Japan, Trade Relations EC/US & Canada, and Transport Value-Added Tax.

Once you type in the key phrase, the system will conduct the search and keep you informed of its status. Once the search is completed, you will receive up to 10 pages of citations, which are always the most recently published. In addition to regular Compu-Serve connect-time fees, the charge for this search is \$4. If you select to see a full page of the text from one of the citations, the charge is \$11. Each additional group of 10-page citations is \$4.

—Cathryn Conroy



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# Stock-aids

# Two online investors offer tips on corralling investment data.

"The way to make money in stocks is you find a stock you like, and you buy when the price is low, and you hold onto it till it goes up, and then you sell it. And if it don't go up, don't buy it."—Will Rogers

Making money in the stock market may not have changed much since Rogers' day, but the active investor now has a posse of online resources for evaluating a stock's timeliness and value, or why it "don't go up." Just ask Dave Cardinal, a San Franciscoarea software management specialist with Sun Microsystems, and Paul Schatzkin, a financial consultant and computer guru for a tax and financial planning firm in Maui.

Cardinal finds the services listed under the Ticker Retrieval (GO TICKER) banner an excellent beginning point. "After entering the ticker symbol, I quickly see exactly what information CompuServe carries on the company I wish to study." Cardinal generally starts by collecting quarterly and annual financial statistics from Value Line (GO VLINE) and loads them into Wings, a Macintosh spreadsheet. Four kinds of annual reports—income statements, balance sheets, sources and uses of funds, and key ratios tables—supplemented by quarterly summaries are offered.

"I'm no financial genius," says Schatzkin, "but I have figured out how a fast glance at a balance sheet can tell me if the company is fiscally sound. I immediately screen out stocks with a current ratio of less than 1. Too high of a number (say, more than 2), on the other hand, suggests that the business may not be using its resources wisely."

Schatzkin also dislikes high debt-toequity ratios, following the guide that .5 is high enough. "Companies that are overleveraged are ticking time bombs," he says. "These figures, as well as recent stock price and p/e ratio histories, can all be gleaned from using the Standard & Poor's reports



Seeks growth stocks: Cardinal (GO S&P)."

Another important statistic shown in S&P is the level of institutional ownership. "All other things being equal, I like seeing it under 10 percent, implying that the professional money managers haven't yet gotten in and bid up the stock's price," Schatzkin says. "These could be the very candidates the managers of pension and mutual funds are

# **Fundamental Analysis Toolkit**

With CompuServe in your fundamental analysis toolkit, you can perform stock evaluations at a moment's notice. Following is a brief rundown of what information is available and where you can find it. Note that most of these services carry surcharges above standard connect-time charges. Type GO RATES for a current schedule. Remember that you may use the ticker symbol HRB (H&R Block) in any of these services, surcharge-free, to preview the exact kind of information contained.

Type of Information	Where to Find It	How to Get There
Security Overview	Issue Examination	GO EXAMINE
Company Background	S&P Online	GO S&P
Earnings and P/E History	S&P Online	GO S&P
Quarterly Earnings Summary	Value Line Quarterly Financials	GO VLQTR
Future Earnings Estimates	I/B/E/S	GO IBES
Dividend History	Dividends, Splits, Interest	GO DIVIDENDS
Current Balance Sheet	S&P Online	GO S&P
Disclosure II	Disclosure II	GO DISCLO
Historical Balance Sheets	Value Line Annual Reports	GO VLANN
Current Income Statement	S&P Online	GO S&P
Disclosure II	Disclosure II	GO DISCLO
Historical Income Statements	Value Line Annual Reports	GO VLANN
Sources and Uses of Funds	Value Line Annual Reports	GO VLANN
Key Ratios	Value Line Annual Reports	GO VLANN
Ownership Reports	Disclosure II	GO DISCLO
Business Line Table	S&P Online	GO S&P
Company News	Executive News Service	GO ENS
	NewsGrid	GO NEWSGRID



29

Stock-aids

looking at for their next round of capital gains."

Cardinal seeks growth stocks, attempting to find them before they're discovered by most of Wall Street. One that he bought late last year is Cabletron. "This manufacturer of products for ethernet-based LAN networks had a favorable below-market price earnings ratio together with a strong growth rate," he says. "The balance sheet is clean, generating sufficient cash reserves to tie them through any short-term downturns. They are expanding into Europe, which will be a major market by mid-decade."

Income statements and balance sheets do not, however, reveal the complete story. They can tell only about a firm's past and may shed little light on potential problems beneath the surface. "That's a major reason why I regard the Investors' Forum (GO INVFORUM) as beneficial," says Schatzkin. "It gives me an opportunity to bounce ideas off others and gain perspectives I might not have had. Often, these come from individuals with firsthand industry knowledge."

One recent discussion in the forum revolved around a particular waste-management consulting firm. Jack Peterson, an industrial hygienist often called upon to testify as an expert witness in court litigations, presented this real-world insight: "Few stop to consider that these companies are accruing substantial unquantifiable liabilities not

appearing on balance sheets. It is my guess that not one is completely prepared—if there is such a thing—for the suits that could eventually come. That's one reason why I will not invest in such stocks."

The desire for additional perspectives and second opinions leads Cardinal to regularly consult Investext (GO INVTEXT), a full-text brokerage house report service (see story on page 28). "Sure, my broker gladly sends me reports on a company or industry when he has them. With Investext, however, I can research the idea while it's fresh in my mind. Moreover, I'm able to review the thoughts of a more diverse spectrum of analysts."

A quick way to get a feel for the professional consensus on a stock is through the Institutional Brokers Estimate System (GO IBES) summaries. "It lets me know how my own earnings forecasts match with those of the pros who make a living doing this," observes Cardinal. "If I spot an estimate that is sharply higher or lower than mine, it makes me pause to perhaps reconsider my evaluation."

Earnings trends are significant for Cardinal. "I watch these changes in I/B/E/S. If I see them rising, for example, this supports my optimism as others in the know are recognizing the value I see. Earnings are a key to a stock's fundamental valuation, as, by classical definition, price is a reflection of anticipated future earnings and dividends."

Both Cardinal and Schatzkin stress the importance of keeping abreast of the news on the companies they monitor or own in their portfolios. "I read everything I can get my hands on: The Wall Street Journal, Barron's, Investor's Daily," explains Schatzkin. Cardinal, on the other hand, takes advantage of the clipping capabilities of the Executive News Service (GO ENS) to automatically save stories on his stocks. "I travel on business a lot. With ENS, I know the news is waiting for me in my clipping folders when it's convenient for me to read it."

So it goes with the bulls and the bears. To head 'em up and move 'em out, you've got to lasso the leaders that take the upward direction. And as Cardinal and Schatzkin have found, it's the online lasso that gives the extra spin. Will Rogers would have been so pleased.

Mike Pietruk is a forum administrator of CompuServe's Investors' Forum and an assistant vice president of Preferred Savings & Loan in Chicago. His CompuServe User ID number is 76703,4346.

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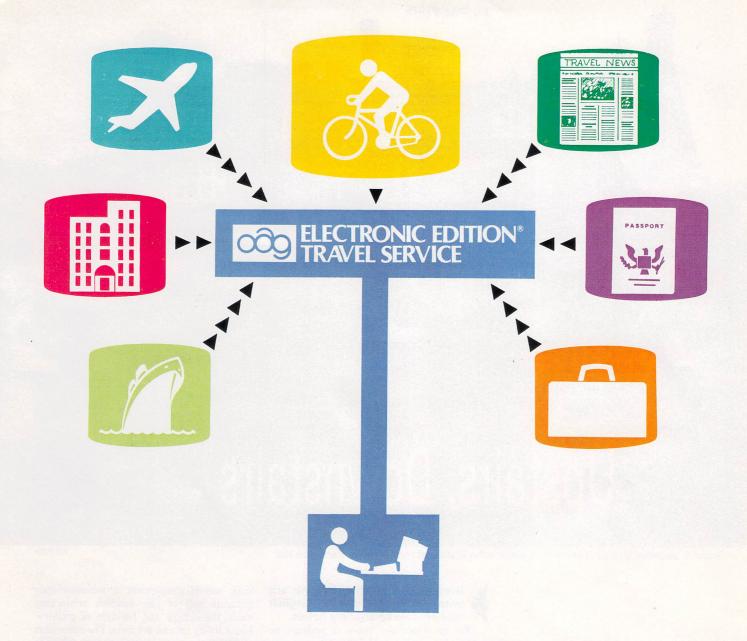
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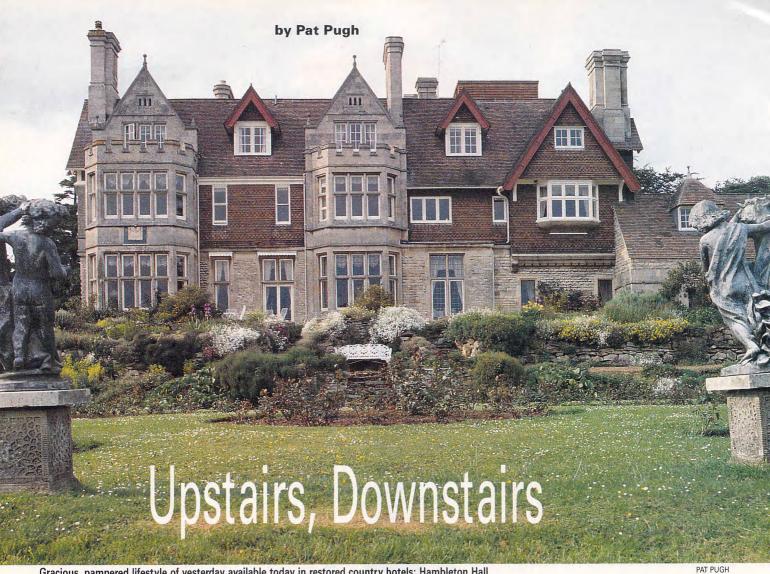
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Gracious, pampered lifestyle of yesterday available today in restored country hotels: Hambleton Hall

# Recapture a courtly, bygone era with visits to classic English manors-turned-country hotels.

For an American, there is perhaps no better place in the world that can be so easily

grasped in so little time as England. Unlike sprawling France, the glories of England are concentrated. It's infinitely more relaxed than Germany and more of this world than ethereal Italy.

England is, above all, a kingdom of castles and splendid Georgian country houses that welcome guests with every conceivable modern comfort and dazzling cuisine. They are extraordinary estates set on magnificent grounds, steeped in centuries of history and well-situated for sightseeing the region, and they exemplify the local fidelity to regional architecture, ambience, even cooking.

The great English houses of the 18th century, with their classical facades, elegantly proportioned rooms and equally exquisite gardens were designed in the belief that everything in the

environment, from porcelain dinner services to furniture and dramatically painted ceil-

ings, should complement a self-consciously gracious way of life. English aristocracy made the design and lifestyle of countryhouse living into an art form. The successors of those aristocrats have since been forced to sell or open their doors to the public as a museum for a fee. Fortunately, a majority of these manses have been turned into quite luxurious accommodations.

"People today are attracted by places that give them access to historical surroundings from a base of comfort, good service, and appealing cuisine," says Ronald Beaumont, executive vice president of Preferred Hotels, a worldwide association of independent luxury hotels and resorts. "And they appreciate hotels that are run from the heart." A few days stay at a country-house hotel provides an intimate glimpse into English life and the opportunity of making fascinating discoveries that only comes from poking into out-ofthe-way spots. There are dozens of marvelous examples of such hotels, and those to be visited should include Amberley Castle, one of England's most dramatic fortresses, and Lucknam Park for its proximity to the striking Georgian town of Bath.

Outside the tiny village of Amberley, 45 minutes from Gatwick Airport on BritRail's

# **TRAVEL**

### CM's Travel Credo:

Bring us your tired, your weary, your forlorn spirits and we pledge to ship you out to London, Tokyo, Budapest, maybe even a Wyoming dude ranch. Lengthy luxuries, quick-hit getaways and memories guaranteed.

> Mind Your Manors While in England

British History on Rye, page 35 London-to-Brighton frequent southeast network, snug inside immense, fortified stone walls, lies Amberley Country House (telephone number, 0798-831992). From the battlements of the 14th-century castle-turned-hotel, one can view the early morning come alive in a flood of sunshine that extends past the fortress domain to the distant grassy folds of the South Downs of West Sussex.

Abandon hope, all ye who seek liveliness here, but devotees of silence can rest assured that they will be aptly rewarded with hospitality and delicious food. Make no mistake, the surroundings are rustic, but the hotel and its guests are decidedly not. The walls may reverberate with eons of history—King Charles II passed this way, as did Oliver Cromwell when his soldiers laid the Great Hall to ruin in 1642—but the portal opens onto a tranquil world of blazing fires, English chintzes, and drawing rooms aglow with burnished oak paneling.

The Gothic mood still prevails in the castellated towers, arches topped with gargoyles, but the front door is no longer creaked open by a gnarled retainer. Today's visitors enter the ancient castle by driving up a broad graveled entryway and crossing over the now dry moat before passing through a massive gate onto the grounds.

Each of the 12 enchanting bedrooms, with Jacuzzi en suite, is named after a castle of the Sussex region and all reflect the charm of its owners, Joy and Martin Cummings. The erstwhile couple bought their "dream castle" a little more than a year ago and immediately set about transforming their unique property into a hotel. Prior to the current proprietors, Amberley was owned by American furniture tycoon, Hollis Maclure Baker. It was Baker's inspiration that was responsible for the installation of the virtually noiseless motorized moat gate.

"Total refurbishment meant installing adequate windows, heating, lighting, and fire protection equipment, and updating the kitchen," claims Joy, who personally oversaw the tremendous task.

The extensive renovations also included completely restoring a splendid 17th-century hunting mural on the vaulted ceiling of the Queen's Dining Room upstairs. A pair of artists was hired to clean away the grime of centuries of log fires and seal cracks before painstakingly mixing the old-style pigments to match the original ancient hues.

Evenings, guests are treated to a variety of outstanding game dishes prepared and presented by the Cummings' resident French chef. Of course, everything is made with fresh ingredients including wild mushrooms and local cheeses.

This is the northern gateway to the South Downs, an unspoiled land of woodlands and wildfowl, tranquil villages and marshland,



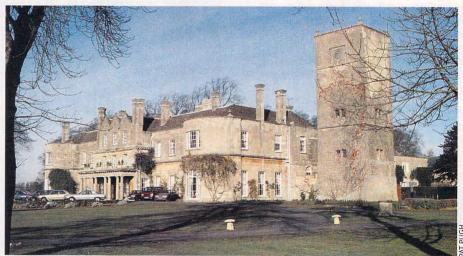
Picturesque village outside of Lucknam Park Hotel: Castle Combe

and, let it be whispered, into this life occasional rain doth fall. Outside the castle's six-foot-thick walls in the charming village of Amberley threads a gentle road of deep thatched-roofed cottages and stone-tiled houses. The authentic Norman fortress enjoys a particular advantage for either arriving or departing Americans with its location 35 minutes to Gatwick Airport, and the center of London lies just 70 minutes away. Coming by rail heightens the appeal of such

a trip far more than renting a car and contending with English road signs and unfamiliar left-side driving lanes.

# A Dip into Bath

Deep in England's West Country, seven miles outside of Bath, Lucknam Park Hotel (telephone number, 0225-742777) is a splendid 280-acre estate with its own stable and tennis court. The spacious Georgian manor, dating to 1377, is the kind of place that makes



Spacious Georgian manor dates to 1377: Lucknam Park Hotel

# **How to Find UK Country-house Hotels**

Besides the extensive roster of luxury country hotels presented by Prestige, modestly priced rental accommodations—ranging from thatched cottages to city apartments—are offered by British Travel Associates. The company lists more than 1,000 rental properties throughout England, Scotland and Wales. For a copy of its 24-page Travel Report and color catalog, write BTA, 1545 New York Ave NE, Washington DC 20002; 800/327-6097 toll-free.

For exploring the hamlets and dales of England, depend upon either the Book of British Villages, a handsomely illustrated alphabetical guidebook or Handpicked Tours in Great Britain, by AA Drive Guides, each priced around \$45. The always reliable Egon Ronay's Guide 1990 to Hotels and Restaurants in Great Britain and Ireland lists rates, accommodations and eating establishments (\$16). Castles in Sussex is also a splendid addition for touring the Southeast (\$18).

For further information on visiting Great Britain, contact any British Tourist Authority office in New York (212/581-4700), Chicago (312/787-0490), Dallas (214/720-4040) and Los Angeles (213/628-3525).

it easy to leave home. Cushioned by green woodlands and adjacent to the quaint village

TRAVEL

of Colerne, it was recently transformed into a tastefully furnished first-class hotel and dining room.

The stately manor house includes a walled "mews" with garden rooms and a leisure spa that houses a swimming pool, sauna, Jacuzzi, Turkish bath and beauty rooms. A helicopter pad on the front lawn doubles as a croquet court, and hunting can be arranged by prior notice.

Most visitors prefer to explore the surrounding picturesque villages that include Castle Combe, Lacock Abbey, Bowood House, Royal Crescent Bath and Corsham Court. Bedrooms in the main house are the most spacious; mews rooms are smaller and comfortably furnished, but lack the feeling of history. Each room is equipped with the latest in bath-shower arrangements and kingsize bottles of Crabtree & Evelyn toiletries.

A mile-long driveway, straight as an arrow and lined with ancient beech trees, welcomes guests to Lucknam's lavishness. The lobby masquerades as the hall of a private house, with anterooms leading off in several directions. One doorway revealed a fire in the hearth of the library, another a drawing room of noble proportion that becomes the social center of Lucknam before and after dinner, when guests sink into voluminous couches or wing chairs.

At Lucknam, it's boots and turtlenecks by day and simple silks and jackets by night. Just as the hotel is known for its cuisine (Devonshire lamb and cauliflower-leek soup), its wine cellar is a treasury of 250 varieties.

Carefully preserved: Castle Combe



Besides exceptional Chateau d'Yquem, the list boasts a number of California estate

bottles. Lucknam Park is, above all, sampling the good life in the country.

De rigueur at any of Great Britain's luxury country hotels is the high level of service and comfort that normally includes remote control color TV, direct-dial telephones, and very classy bathrooms furnished with perfumed French soaps and lotions and thick terry bathrobes.

Amberley Castle and Lucknam Park are members of the Prestige Hotels organization

that includes world-famous hotels such as the Ritz and Inn on the Park in London and New York's Grand Bay. The group counts 39 properties scattered across England, Ireland, Scotland and Wales.

For further information on visiting Great Britain, contact any British Tourist Authority office in New York (212/581-4700), Chicago (312/787-0490), Dallas (214/720-4040), or Los Angeles (213/628-3525).

Formerly special sections editor for The Houston Chronicle and columnist for The Omaha World Herald, Pat Pugh is a free-lance travel writer based in Houston, Texas.



Guests sample good life in the country: Lucknam Park

# Take the High Road

If you're ready to book yourself on a flight to London, head over to OAG, Eaasy Sabre and PARS online travel services. Each has planned free, online booking promotions during the summer months to teach you how to book reservations online. Check "What's New" for information and updates.

In the meantime, if the thought of booking a flight online makes you worry that you'll end up on your way to Latvia when you wanted London, read on for some facts, and rest easy.

When you reserve a flight online, unless you choose to ticket by mail, the reservation is guaranteed, but the quoted fare is not. At least not until you make the purchase. That means you are free to change your reservation without the penalty of paying for something you never got (cancellation penalties apply only if the ticket has been purchased). But your bargain fare may be bargained right out from under you. Not your seat, though. That's guaranteed upon making the reservation. It's the fare that someone else may snap up if you

haven't paid for it.

So if locking in the fare is important, it's best to purchase the ticket quickly. That can be accomplished by choosing the ticket-by-mail option or stopping by an airport, airline office or travel agency. And if your favorite aunt is a travel agent, there's no need to fret; the travel agent who tickets the online reservation gets the commission for the sale. Give her a call, tell her what you've done and she can take it from there.

If you want the ticket mailed to you, you can pay by credit card or check, and the ticket will arrive at the specified address. The moment you choose the pay-by-mail option online, the fare is guaranteed and cancellation penalties are enforced.

When reserving a flight online and using the ticket-by-mail option, you must book up to 14 days prior to departure, depending on which service you use. In addition, if you're paying by credit card and using Travelshopper, one segment of the trip must be with TWA. This requirement does not apply for payment by check.

### Comin' Through Rye

The ancient town of Rye, on England's south coast, sits on a hill overlooking the vast Romney Marsh, a luxuriant flatland of grassy fields and grazing sheep. Its narrow lanes bustle by day, yet fall silent and brooding at night, lit eerily by the glow of streetlamps and the moon on the sea beyond. Although Rye's glory days as a major seaport are long over, it is one of the best preserved ancient towns in England.

Along Cinque Ports Street, parts of the old town wall still stand. Four stone gates once guarded the corners of Rye, but only one now remains, the 14th-century Land Gate. The two barrel-shaped towers and stone archway of this massive portal were once fitted with a drawbridge, and during high tide this was the only entrance into the town.

The clock above the arch was installed in 1863 as a memorial to Prince Albert, Queen Victoria's beloved consort. It broke down in 1940, but was repaired in 1981 to celebrate the wedding of Prince Charles and Lady Diana. You still would be wise not to set your watch by it.

In the center of Church Square, at the highest point of the town, is St. Mary the Virgin, one of the most glorious churches in this part of England. The buttresses seem to float out from its exterior walls. Two rows of high arches grace the interior, and in the early afternoon the sun streams in through the stained-glass windows and sets the chancel aglow. One morning I wandered in and found the organist at practice. I sat down on a pew, mesmerized, as he played Albinoni's haunting Adagio and set every molecule in the cathedral vibrating.

A short walk from Church Square takes you to the end of Watchbell Street, which looks out over the cliffs to Strand Quay. This was the center of trade during the prosperous Elizabethan era. Once the sea reached to the very edge of the quay, but today the wharf is touched only by the banks of the River Tillingham. And, finally, Traders Pass brings you to Mermaid Street, where the medieval, black-timbered Mermaid Inn, former haunt of the dreaded Hawkhurst Gang, has been left to a peaceful existence as a hotel and restaurant.

At the top of Mermaid Street is the redbrick facade of Lamb House. During the



Parts of the old town wall still stand: Rye

summer season the first floor and garden of the house are open to the public. A number of Henry James' books, letters and other possessions are on display here. Among them is a copy of the lease James signed when the coveted house first fell into his hands—the house that was "the calmest yet cheerfullest that I could have dreamed," as he wrote his sister-in-law, "in the little old, cobblestoned, grass-grown, red-roofed town...."

Getting There: Rye is only 63 miles from London, and is easily reached by train or automobile. On weekdays, British Rail runs several trains each day from London's Charing Cross Station, which connect with the Rye train at Ashford. Service is less frequent on weekends.

Where to Stay: Jeake's House (Mermaid Street, Rye; telephone 0797-222828) was the home of American author and poet Conrad Aiken between 1924 and 1947. Today it is Rye's premier bed-and-breakfast inn, run by native Ryers Jenny and Francis Hadfield. Double rooms are \$56 to \$66 (including full breakfast) except for Aiken's study, which sleeps up to four people and runs between \$77 and \$105.

The Old Vicarage Guest House (66 Church Square, Rye; telephone 0797-222119), originally Elizabethan but now largely Georgian in design, is 400 years old. Double rooms include full breakfast and rates are between \$56 and \$70.

Where to Eat: Don't be fooled if your

waitress at the Landgate Bistro (5/6 Landgate, Rye; 0797-222829) is wearing jeans and the decor is almost non-existent; the exquisite fare served up by Nick Parkin and Toni Ferguson-Lees is as good as you will find anywhere for the money. Dinner for two, without wine, is an amazing \$35 to \$50.

The Monastery (6 High St., Rye; 0797-223272) serves up a wide variety of French-style dishes, from *scampi Provencale* to *escalopes de veau dauphinoise*, in a basic but very creditable manner. Dinner for two ranges from \$33 to \$62, not including wine. Lunch, served starting a week before Easter to the end of October and during December, is \$21 to \$23.

The Runcible Spoon (62 Cinque Ports St., Rye; 0797-225094), featuring homemade soups and pâté, is particularly good for lunch—be sure to ask if they have the "ginger alcoholic surprise" for dessert—as is the Peacock Wine Bar (Lion St., Rye; 0797-223161), a good place to sample a basic English pub meal. The best way to experience the historic Mermaid Inn (Mermaid St., Rye; 0797-223065), is to have a drink at the bar, an ancient room framed with blackened wood beams and featuring a 12-foot wide medieval fireplace.

For further information, contact the Rye Tourist Center, 48 Cinque Ports St., Rye, East Sussex, TN31 7JP; telephone 0797-222293. ◀

Michael Balter is a free-lance travel writer based in Paris.

# An Heirloom that Grows on You

An online seed exchange helps preserve our agricultural past and promise of a bounteous future.

promise of a bounteous future.

One-third of Ireland's 5 million people starved to death in the Potato Famine of the 1840s. Another 1 million abandoned their

homeland during that time, and by 1900 more than 4 million had emigrated to the United States alone.

> Could a famine of this magnitude happen again? Could it happen here? The answer to both questions is yes, according to Good Earth Forum Administrator Dave Peyton. Yes, unless we are very careful.

At the root, literally, of the Irish tragedy was a Mexican blight that destroyed the crop the people depended on for income and sustenance. Irish farmers planted just a few varieties of a species of potato imported from South America in the 16th century. None had any resistance to the blight.

"Most vegetables—and a lot of flowers—grown in the United States these days are hybrids," says Peyton. "While they are usually good producers, some of them tend to be a little picky about the soil, water requirements or fertilization. And some are more prone to disease. So what happens if some sort of blight affects all the corn in America? What if we don't have the heirloom varieties to rely on and produce new blight-resistant hybrids?"

Heirloom seeds, in spite of their quaint name, would be key to reviving a food crop wiped out by a disaster such as the Potato Famine or the Southern corn leaf blight that destroyed 15 percent of the American corn crop in 1970. These seeds, generally passed on among families right along with the deed to the farm, are being lost as more people abandon the agricultural way of life. At the same time, economics have forced many of the smaller seed companies that carried heirlooms to go out of business.

Larger firms, in turn, make their money

by hybridizing strains that grow in the largest possible area rather than cultivating many types of seeds for many different climates. The result is a monoculture of genetically similar plants in American farm soil and a treasure trove of germ plasm, or genetic material, in attics, barns and bureau drawers.

"Most of these older vegetables are 'open pollinated'," explains Peyton, "which means they do not require hybridization to keep their characteristics true. In effect, that means every farmer or gardener can save his or her own seeds from one year to the next and get the same vegetables year after year. If you save the seeds from a hybrid variety, within a few generations you'll get a mutation that may not resemble the original hybrid at all."

The Good Earth Forum hopes to get priceless heirloom seeds out of the jar and into the garden. Members swap both vegetable and flower seeds on the Seed Exchange for nothing more than the price of a self-addressed stamped envelope. Judging by the requests for violet potatoes, cranberry lettuce, purple broccoli and "something to surprise my mother," members are enthusiastic about saving—and enjoying—this planet's many species of edible and decorative plants.

"I want unusual plants," says seed exchanger Marjory Harris, "not the things you get in a nursery in a six pack. They're beautiful, but why should I have the same things as every other gardener?"

Harris lives in San Francisco, where the population's ethnic diversity has led her to some magnificent horticultural finds as well as tips on productive gardening in the hilly terrain. Her latest delectable is Le Mien mustard, an edible green brought into the country by Laotian immigrants. "I would love for people to try it," Harris says, "You can put the new leaves raw in salads or steam them in a wok or put them in soups. They're not harsh like many mustards, and they have lots of protein and iron."

Julie Johnson is giving away seeds for *hot* hot peppers that thrive in cool climates. The

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The Seedy Side of US Horticulture



Has Le Mien mustard seeds: Harris

#### plants are grown in her Georgia backyard but originate from her father-in-law's garden in New York state. "He never thought there was anything unusual about saving seeds and had been doing it for 30 years or more," she says.

Peppers, herbs, eggplant and tomatoes are Johnson's specialties. "These crops will stay fairly true to form," she explains. "You don't have the problem of crossbreeding that you would with different varieties of corn, for instance."

Once you get started, Johnson points out, you can save your own seeds and either offer them on the exchange next season or plant them again if they pleased your palate and your eye. "Most people don't know it, but you don't have to use all your seeds each year," Johnson says. "Seeds can last a good five years."

The seed traders hope to get a significant number of home gardeners and farmers interested in sharing both their heirloom seeds and their experiences in raising them. Especially in the New World, where everyone has been an immigrant, bringing in seeds from countries closed tight by politics or decimated by natural disasters is both a cherished tradition and critical to the future. "Preserving the germ plasm of things that in their own environment may be lost is critical," Harris says. "I feel like I'm saving these plants for other people and other times."

Maura J. Mackowski is a free-lance science and business writer based in St. Louis. Her CompuServe User ID number is 76004,2243.

#### Green Thumb Network

In addition to swapping with each other, each of the forum members patronizes a favorite mail-order seed company, which makes for a nice little network for a gardener looking for that hard-to-find rutabaga or vegetables in colors that would knock you on your wheelbarrow.

Forest Shomer, founder and director of the Abundant Life Seed Foundation in Port Townsend, Wash., publishes a catalog of heirloom seeds and unusual books on organic gardening and related topics. Specializing in rare and endangered plants for the Pacific Northwest, Abundant Life is tax-exempt as an educational and scientific institution. For information on membership, call 206/385-5660 or send a postalgram to P.O. Box 772, Port Townsend, WA 98368.

Kent and Diane Whealy of the Seed Savers Exchange in Decorah, lowa, publish a directory of 800 traders swapping 5,000 varieties of seeds. They also offer a plant finders service for locating the most exotic species. In addition, they put out a garden seed inventory of 215 mail-order seed companies and a fruit, berry and nut inventory of 248 mail-order nurseries offering 4,100 varieties of edibles. For an informational brochure, send a self-addressed stamped envelope to The Seed Savers Exchange, Route 3, Box 239, Decorah, IA 52101.

-MJM

### Attack of the Space Tomatoes

Millions of kids will be doing some vital gardening for America's space program this summer. For hands-on space agriculture experiments, NASA is giving out some 12.5 million tomato seeds that spent almost six years in orbit. The goal of the program, according to NASA administrator Richard Truly, is not just to study the effects of long-duration space exposure on a living organism, but to "learn that science is fun."

SEEDS (Space Exposed Experiment Developed for Students) will allow children to study firsthand tomato seeds housed in the Long Duration Exposure Facility (LDEF) satellite. Last December the space shuttle retrieved the 11-ton satellite and its 57 experiments, designed to observe the effects of space on construction materials. The George W. Park Seed Co. in Greenwood, S.C., had been patiently storing an equal number of seeds as controls to the experiment, according to NASA spokesperson Terri Sindelar.

NASA will distribute 180,000 seed test kits, each containing 50 flight seeds and 50 control seeds, instructional materials and computerized data collection and reporting booklets. The space agency is encouraging students to be creative in their experimentation, examining the seeds, plants and tomatoes for germination rates, phototropic responses, population genetics and other results.

The tomato was selected for the project, Sindelar says, because of its familiarity to most home gardeners and because it is easy to grow. The seeds are also small and lightweight enough that NASA could afford to fly 12.5 million of them. Rutgers, the variety chosen, is open-pollinated, non-hybrid, can grow in just about any climate and will produce plants with comparatively little variation from generation to generation. Consequently, NASA expects any changes in the plants' characteristics to be easy to spot.

Space Forum member Steve Lee is involved with the program in Tampa Bay, Fla. "I've notified local schools about the opportunity and we now have around 150 involved," he says. "We're organizing a teacher's workshop to share experiment ideas and learn more about growing tomatoes.

"I'd encourage anyone else interested in motivating schoolkids toward science and engineering to get involved. It promises to be a wonderful experiment and a lot of fun."

As of late February, roughly 100,000 student groups had signed up. To apply for your seed kit, send a request on your school's letterhead stationery to: NASA SEEDS Project, Educational Affairs Division, Code XEO, NASA, Washington, DC 20546.

-MJM

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KeyPlan

### **Project Management Program with Punch**

Symmetry Software Corp.,

225 E. First St., Mesa, AZ 85203; 602/998-9106 or 800/624-2485, Fax: 602/991-0572

**Computers:** Macintosh Plus, Macintosh SE family and Macintosh II family.

**Operating System:** Macintosh System 6.0.2 or later.

Media: Supplied on two 800K 3.5-inch diskettes.

Copy Protection: None.

Required Peripherals: Apple-compatible printer; external diskette drive or hard disk (recommended); running from 800K drives will involve disk swapping, especially when using "Help" function.

Other Requirements: None.

Optional Items: Apple-compatible laser printer.

System used for test: Macintosh Plus with Everex 20D 20MB external hard disk, POWERDrive external 45MB removable cartridge drive and ImageWriter II printer; running System 6.0.4 and Finder 6.1.4.

List Price: \$395

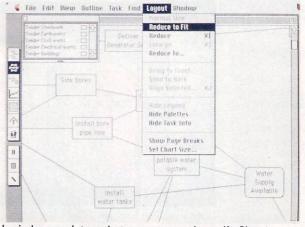
If you think project-management software is only for big construction companies or for firms doing government work, you're wrong! Programs such as Symmetry's KeyPlan are useful for any business that needs to oversee the progress of projects while communicating with clients.

To communicate with audio-visual clients and track the progress of productions, I always create Critical Path Method (CPM) charts showing each step of a presentation. The charts tell clients exactly what the steps are and show them that if they don't accomplish certain things at certain times, the project completion date will slip.

I had been using MacProject II for that, but not anymore. As MacProject grew larger, it also became slower. On a Macintosh Plus it's as responsive as a hippopotamus floundering in mud. KeyPlan, on the other hand, handles like a Corvette!

KeyPlan 1.0 arrives in a no-frills box containing a hefty, high-quality manual, a book called *Getting Started* and two diskettes. Installation was a matter a dragging a few icons onto my POWERDrive cartridge. Symmetry recommends a hard disk and warns that an all-diskette system won't be the most convenient way to work.

Even if you're familiar with projectmanagement software, I recommend reading Getting Started and working through



Logical approach to project management charts: KeyPlan

the tutorial. If you're new to project-management techniques, don't be intimidated by the size of the main manual. Think of it as a reference source when you have questions; all basics are covered in *Getting Started*. KeyPlan was written by an Australian company, and Symmetry's president says that an "Americanized" manual is in the works.

Unlike MacProject, KeyPlan takes a logical approach to producing a flow chart, and it is outline-based like some presentation graphics programs. Looking at a typical KeyPlan screen, I felt strong flashbacks to Aldus Persuasion. If you're an Acta user, you can import files directly into Keyplan with a utility supplied. Others will have to work within KeyPlan's "outline view."

This view forces you to consider all elements involved in a project, and through rudimentary cut-and-paste procedures, it lets you put all "tasks" in chronological order. If you'd rather just sit down and type tasks randomly, that's OK. Outline preparation order doesn't effect "plan" or chart view. You can bounce back and forth between views, much as you would in Persuasion. When the outline is finished, its bullets must be converted into task boxes, which is done by pressing the Command key and clicking the bullet.

Clicking on the plan view icon brings you face-to-face with the charting function. The program automatically puts a start and finish "milestone" box on the chart, which is the only thing I don't like. A user cannot assign any work time for start or finish boxes. While not a problem for the finish, I often assign some time between the first activity, usually a proposal, and the first

step. With KeyPlan, I have to show a "prepare proposal" box after the start.

The program displays all tasks from the outline view in a small window superimposed in the upper left corner of the chart. To insert any task, just click on the task and drag it onto the chart. Be aware that the program balks when placing tasks close to the finish box because it thinks you are trying to put a task after completion. My advice is keep moving the "finish" box to the right of the chart until

Assigning work days and costs is a snap because that information is entered in a window that is part of the plan view. This is opposite to MacProject, where you have to bounce back and forth between plan and task windows. With KeyPlan, you can complete your chart faster and have more time to consider "what if" scenarios.

you've finished placing all tasks.

Plan and Outline aren't the only options. You can plot charts as bar graphs, in Gantt style or as lists of activities. All options support color on Macintosh II systems, and on-screen help is available. A Display Editor can customize any view, so you can change fonts, styles and how dates are displayed around task boxes. Once customized, you can save the information as a template.

You may not have tried project-management software for your business because it seemed too complex. However, KeyPlan can handle complicated projects but is so approachable you'll be able to create working CPM or PERT charts within an hour of installing the program. At \$100 less than MacProject II, KeyPlan offers both superior pricing and performance.

#### Reviewed by Anthony Watkins

Anthony Watkins is a writer and photographer. He is president of Snowflake Snapshots in Englewood, Colo.

A&L Graphics Composer & Editor

### An Easy Way to Sophisticated Artwork

**Computer Support Corp.,** 15926 Midway Rd., Dallas, TX 75244; 214/661-8960, Fax: 214/661-5429

**Computers:** IBM-compatible computer (PC-AT or PS/2 recommended).

**Operating Systems:** PC-DOS or MS-DOS version 3.0 or higher with Microsoft Windows 2.0 or later, Windows/286 or Windows/386 (Windows not included); also available for OS/2.

Media: Supplied on nine 5.25-inch diskettes (three programs, three symbols, one typeface, one lesson and one sample); available on 3.5-inch diskettes; requires hard disk with at least 1MB of free space (considerably more space required for additional optional symbol sets).

Copy Protection: None.

Required Peripherals: Supports Windows-compatible video adapters, including CGA, EGA and VGA; Windows-compatible pointing device such as mouse or drawing tablet.

Other Requirements: Minimum 512K RAM (640K recommended); full-time version of Windows 2.x, Windows/286 or Windows/386.

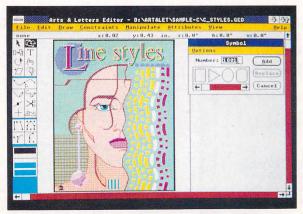
Optional Items: Windows-compatible printer or plotter; desktop publisher such as Aldus PageMaker or Ventura Publisher; math coprocessor (coprocessor Arts & Letters version available free with product registration); extended or expanded memory for disk caching.

System used for test: 1024K Proteus 286GTX with two 1.2MB diskette drives, 20MB hard disk, two 15MB Sysgen DuraPak drives, 80287 math coprocessor, ATI VGA Wonder video adapter, Princeton Ultra-14 monitor, Microsoft Mouse and Epson FX-85 printer; running IBM PC-DOS 3.10 with Windows/286.

List Prices: \$395 for Graphics Composer; \$695 for Graphics Editor; \$149 to \$449 apiece for Presentation Paks (symbol library collections); \$79 to \$129 apiece for individual clip-art libraries.

Over the years, I've repeatedly reviewed versions of a graphics system called Diagraph, and I found it an admirable but limited package for preparing boardroom-quality presentation graphics from symbol libraries. My complaints were Diagraph's inabilities to create or modify symbols and to dress up graphs and charts generated by a companion Picture Perfect program.

Arts & Letters packages changed things dramatically. When A&L Graphics Composer was introduced as a Microsoft Windows application, copy protection disappeared, and importing was added for graphs and charts from Picture Perfect or Lotus programs. Like Diagraph, A&L Graphics Composer places, aligns, sizes, stretches, copies, rotates and flips symbols or text.



Graphics editing functions added: A&L Graphics Editor

However, it cannot edit symbols, redefine symbol filled areas or create new symbols. Composer remains bound to the company's clip-art symbols and text fonts.

However, A&L Graphics Editor, now at version 2.02, adds graphic editing to the Composer functions. The Editor still relies heavily on standard and optional symbol and text libraries, but symbols can be modified as the user wants. New symbols can be created from alterations, drawn from scratch, manually traced or autotraced from scanned or digitized images (imported via TIF files) and saved in custom symbol libraries.

A&L Editor can import TIF, WMF (Windows Metafile), PIC, Diagraph/2000 and text-only files. A "Decipher" utility (included with a 3,700-symbol Accessory Pak that the user receives after registering A&L Editor) converts Encapsulated PostScript files to native A&L Editor format, even EPS files from Macintosh programs. Notably, A&L Editor cannot import popular PCC and PCX formats; such bit-mapped images must be brought in through Windows' Clipboard.

A&L Editor can export finished artwork to EPS (Encapsulated PostScript), CGM (Computer Graphics Metafile), TIF, SCD (SCODL), WMF (Windows Metafile) and CSP (PC Emcee) files. Among those are formats compatible with Aldus PageMaker, Ventura Publisher and other Windows applications, but not conventional draw-and-paint programs. SCODL files are intended for slide-making; service bureaus can read them and make the needed slides. Again, there is an omission of Z-Soft PCC and PCX formats, so those have to be exported through the Clipboard.

Elsewhere, A&L Editor affords excellent control. For example, Diagraph and A&L

Composer allow only one filling color or pattern in a symbol and only in predefined areas. The Editor can break a symbol into free-form parts, alter or close "shapes" and reassemble new symbols. Each component may be manipulated independently, so almost unlimited variations and combinations of lines, colors, hues, half-tones, dithers and vector patterns can be created.

Other editing may be as simple as changing a symbol

for a one-hump camel to a two-hump camel, as complex as making an upright flamingo into an ostrich with its head buried in the sand.

Both Composer and Editor are object, not pixel, oriented. That's common among Macintosh drawing programs but rare among MS-DOS programs. Instead of pixel editing, whole or component objects are manipulated by dragging "handles." Bit-mapped images are brought in from other programs, scanners, video digitizers or other sources, but are not meant to be used directly. Instead, they may be traced or autotraced with free-form lines and curves, adjusting and combining shapes to create A&L drawings or symbols. I rate the autotrace function as fair. It does well at fitting traces to original images, but it works piecemeal. Numerous parts of a complex image have to be picked and traced before a whole objectoriented equivalent is generated.

Nevertheless, A&L graphics can be spectacular. "Bezier curve" technology and provisions for maintaining smooth line joins and smooth curve slopes assure that objects will reproduce at maximum resolution on an output device (screen or printer) even when rotated, resized or reshaped. Rotate a symbol, and edges don't deteriorate as they do with bit-mapped graphics.

Naturally, A&L packages have conventional tools such as grid and point snapping, on-screen rulers, selectable units of measurement, zooming and so on. There's an "undo" function for drawing and editing functions, but it is somewhat limited and won't undo operations such as moving or copying objects.

The Editor also has a remarkable "blend" function that can give dimension to

Mace Utilities:

### Mr. Fix-it for Hard Disks

rounded objects, create gradated backgrounds or shade objects such as flower petals. An original shape is placed, and a destination copy is placed with different color, size or rotation. The program then computes and draws a specified number (1 to 99) of copies between the two, with either linear or logarithmic distribution. Rotation changes might make a series of objects look like they're falling over. Color variations can provide automatically computed shading. Size changes can make symbols appear to shrink or grow. All with little effort. And the results carry over to hard copy with laser or inkjet printers.

A&L packages handle text as easily as graphics. Letters or text blocks can be rotated, slanted, flipped, sized, shadowed and otherwise manipulated. The Editor can even "distribute" text for particularly interesting special effects involving graduated sizes, colorings, and more.

With these and many more capabilities, Arts & Letters products are amazingly easy to use. It takes little time to become proficient at preparing sophisticated artwork, even without any real artistic talent.

Price difference aside, the choice between Composer and Editor comes down to how much control the user needs. Someone who only wants to assemble drawings from clip-art would be happy with the Composer and its thousands of symbols and numerous typefaces. Someone who wants control or has an artistic bent would prefer the Editor.

One potential problem for Diagraph users is that Diagraph's libraries aren't usable with Arts & Letters. Equivalent A&L symbols must be installed before Diagraph creations are usable within A&L packages. Users who invested heavily in optional Diagraph libraries must acquire Arts & Letters replacements before they can re-use existing artwork. Incidentally, symbol libraries can use up a lot of disk space. They must be installed on a hard disk, and the symbols and typefaces in the 3,700-symbol Accessory Pak easily increase the size of the A&L directory to at least 10MB.

Still, A&L packages are powerful and are easily used by anyone, though they can be a bit sluggish at times thanks to the overhead imposed by the Windows operating environment. Coming almost up to the graphics standards of high-level Macintosh programs, they offer MS-DOS users excellent values where art is needed for desktop publishing and presentations.

#### Reviewed by Ernest E. Mau

Ernest E. Mau, a full-time, free-lance writer and Compu-Serve Magazine reviews editor, is based in Aurora, Colo. He is the author of several books and nearly 300 articles on microcomputer products and applications. **Fifth Generation Systems Inc.,** 10049 N. Reiger Rd., Baton Rouge, LA 70809; 504/291-7221, Fax: 504/295-3268

Computers: IBM PC, PC-XT, PC-AT, PS/2 and compatibles.

**Operating Systems:** MS-DOS or PC-DOS 2.0 or higher; PC-DOS 3.3 on PS/2 systems.

**Media:** Distributed on six 5.25-inch diskettes; also available on 3.5-inch diskettes; requires one diskette drive and a hard disk.

Copy Protection: None.
Required Peripherals: None.

Other Requirements: Minimum 256K RAM.

Optional Items: Color monitor.

System used for test: 512K Victor V286 with 1.2MB diskette drive, 20MB hard disk, EGA color monitor and Panasonic P1191 printer.

List Price: \$139

Power PC users, perhaps more than anyone else, appreciate the complexities of data storage on a hard disk. In a surprisingly short time, a 20MB hard disk can fill up with a myriad of directories, applications and data files. As disk space decreases, disorganization often increases.

For these reasons, we are fortunate to have a set of programs like Mace Utilities. If you are not familiar with these tools, think of the package as an invisible hard-disk mechanic. It finds lost data, fixes broken files, organizes data and generally improves the performance of a hard disk.

Mace Utilities performs all these tasks and more in a simple, menu-driven environment. The main menu bar offers six category options: Info/Edit, Performance, Format, Solutions, Protection and DOS. Within each category are utilities related to the category heading. As the user scrolls through individual options, the screen displays a short, descriptive paragraph on each function. To execute any given program, simply highlight the selection and press the Return key.

Each of the Mace Utilities is a standalone EXE file, so power users familiar with this package can skip the menu and execute programs directly from the DOS command line.

In limited space, it isn't possible to discuss each of the Mace Utilities, but let's consider some of the more impressive programs. Among the most versatile utilities is MUSE (Mace Utilities Sector Editor), which lets the user view and alter any disk information, including file contents, directory entries and system areas. MUSE also is among the most powerful tools and should not be applied until the user is very familiar with its operation and then not without a complete backup of all files.

SQZD is a handy utility for reducing the size of a directory by removing all references to deleted files. By making a directory more compact, it speeds disk searches. Of course, once a disk is SQZD there is no way to undelete files.

Another way to improve disk performance is to use UNFRAG, which restores larger files that have been fragmented through storage in more than one cluster or groups of sectors. Once files are restored, data on disk are better organized and access time is reduced.

Before using this utility, however, the manual recommends first running Remedy. This utility performs read-only tests on every sector of a disk, looking for errors. When it finds one, it moves data off the affected cluster and marks that cluster as unusable.

An Undelete utility can be a lifesaver when a file is deleted accidentally. Used just like the DOS DELETE or ERASE command, only in reverse, this program can be executed with any path name or wildcard to undelete groups of files anywhere on disk, provided their storage areas haven't been overwritten with newer files.

A final utility worth mentioning is Vaccine, a RAM-resident program that protects vital areas of the hard disk against foul play. The protection covers all the information necessary to boot the system from disk and enable DOS to read files on disk. In addition to wiping out viruses, it also prevents accidental reformatting of a disk.

Vaccine offers three levels of disk protection. The appropriate level depends on the system configuration, software used and the user's needs.

The Mace Utilities user manual contains eight chapters in a little more than 200 pages. Although the utilities perform fairly complex tasks, the documentation is written clearly and simply, so it can be easily understood by users who are not familiar with these types of programs.

In the space here, we have barely touched on the power of Mace Utilities. There are 20 utilities in all, some of which could be used every day, others for unexpected emergencies. In any case, this valuable set of programs represents a wise investment for any computer user who cares about the data on his or her hard disk.

#### Reviewed by Franklyn Jones

Franklyn Jones was formerly the managing editor of Interface Age magazine and editor and chief of IBM PC Update magazine. He has written articles for various computer publications, is a regular contributor to CompuServe Magazine, and serves as a marketing and communications consultant.

### Makes Short Work of Text Files

Softwood Inc.,

P.O. Box 50178, Phoenix, AZ 85076; 602/431-9151

Computer: Commodore Amiga.

Operating Systems: AmigaDOS and Work-

Media: Supplied on 3.5-inch diskette; requires at least two diskette drives.

Copy Protection: None. Required Peripherals: None.

Other Requirements: Minimum 1MB RAM.

Optional Items: Color monitor recommended; printer recommended (supports dot matrix, PostScript and other laser printers).

System used for test: Commodore Amiga 2000 with Amiga Enhancer Software, Amiga KickStart ROM 1.3, Sony CPD-1302 Monitor, SupraDrive 80 and 45MB hard disks with AutoBoot interface, Chinon 3.5-inch internal diskette drive, Central Coast Software Mac-2-DOS disk drive, 4MB Progressive Peripherals and Software ProRAM 2000 expansion card, Practical Solutions Mouse Master, Supra-Modem 2400zi and Epson RX-80 F/T + printer.

List Price: \$149.95

PenPal is a WYSIWYG (what-you-see-iswhat-you-get) word processor with form management and database capabilities. Primitive drawing capabilities make it easy to insert lines and boxes to help emphasize graphics or text areas. PenPal's enhancements make it an interesting possibility for word processing with minimal page layout abilities, while form management and simple database capabilities make it a good choice for secretarial uses.

PenPal excels at text creation, editing and simple layout. It doesn't handle multiple columns, but support for multiple fonts is a nice plus. Lack of a thesaurus, indexer and table of contents generator make Pen-Pal less suitable for book-length works, but it is well-suited to letters, resumes, stories or articles. Because it can save files in ASCII, it is useful for editing modemtransmitted messages.

A built-in spelling checker easily creates special user dictionaries for projects with words unlikely to be in the main dictionary. There is no interactive mode to use while typing, but it can check text segments or

specific words only.

Preference settings allow use with the interlace mode turned off for those who don't have FlickerFixer. Although the screen is then a little cluttered and doesn't show entire pages without scrolling, it is accept-

able. In interlace mode, it is quite nice.

Reading files from other sources is less than ideal. Such files must be in ASCII; if a non-ASCII file is picked (for example, a Scribble document), PenPal tries to handle it and then gets lost in an endless loop. It does offer the option to convert incoming text to reformattable paragraphs by interpreting two consecutive returns instead of individual returns as end-of-paragraph

PenPal can insert pictures and flow text around them. Images must be in IFF format, with any resolution or number of colors. PenPal transforms images to eight-color pictures for screen representation but tracks all color information in the original file. The program can use one of three dithering schemes for printout. PenPal doesn't keep all pictures in memory simultaneously. As you move around the document, it loads picture files as needed to display the document section being viewed.

By minimizing the pictures in memory, PenPal can print files with large numbers of pictures, but there's a tradeoff in program speed. You must wait for pictures to be loaded when changing segments to view pages with illustrations.

One of the few problems I encountered was reading a picture on the workbench screen display at full size. For some reason the program couldn't handle it. I could read in other pictures, however.

PenPal works with dot matrix, Hewlett-Packard LaserJet or PostScript-compatible printers. Using PenPal with laser printers requires a bit more setup to include display fonts in the fonts directory. I was impressed with the font handling capabilities; alternative font directories can be accessed in two ways, improving ease of use.

PenPal cannot print files to disk, so creating PostScript files to take to a service bureau would require extra work. If a Post-Script printer is attached to the Amiga, there should be no problems, though.

PenPal's user interface is delightful. Cut, copy and paste controls simplify manipulating large amounts of text. A ruler line sets margins and tabs. And a group of onscreen tools draws lines and filled or hollow boxes. I especially love the program's pointer. When placed over any control icon, the name of the function that will be performed is given. This makes it easy to find the tool needed.

Headers and footers are created using

menu options, but once they exist, they can be changed by placing the cursor inside them and editing like any other part of the document. Date displays and page numbers also can be inserted via a menu option, and several formats are offered for date display.

A default document file can be created so new documents automatically use preferred settings. With form manipulation features, you can create a master form, use the "fill in" option to insert information into blank spaces and then save the completed form under a new name.

PenPal's mail merge for repetitive documents is good for mass mailings, and database functions simplify creating address lists. It also includes special controls for handling address labels.

Documentation is among PenPal's strong points. Not only does it give instructions for using the program, it details using features in specific applications. Installation instructions are excellent, and a hard disk installation tool makes it easy to move everything where it needs to be. The manual is indexed, lists keyboard shortcuts, has several appendixes and provides a reference section detailing how to use each menu option.

#### Reviewed by Cheryl Peterson

Cheryl Peterson is a free-lance writer living in the mountains near Silicon Valley.

#### Go Online for More **Software Reviews**

The following software reviews are available this month in Online Today (GO OLT-230). Many Online Today and CompuServe Magazine software reviews are supplemented with GIF graphics that may be viewed in or downloaded from Library 6 of the Online Today Readers' Forum (GO OLTFORUM).

ColorStudio Image Processor Manufacturer: Letraset USA Computers: Apple Macintosh II.

**Design Your Own Train Systems** Manufacturer: Abracadata Ltd. Computers: Apple Macintosh or IBM compatibles.

ProQube Three Dimensional Spreadsheet

Manufacturer: FormalSoft Computers: IBM compatibles.

#### Architecture

### Design Your Own Rooms with a View

Abracadata Ltd.,

P.O. Box 2440, Eugene, OR 97402; 503/342-3030 or 800/451-4871

**Computers:** Apple Macintosh, Macintosh Plus, 512E, SE family and II family; versions also available for Apple II, Apple IIgs and IBM-compatible computers.

Operating System: Macintosh 6.0.3 or later. Media: Program comes on a single diskette; additional architecture library diskettes are available.

Copy Protection: None. Required Peripherals: None. Other Requirements: None.

Optional Items: Printer recommended.

**System used for test:** Apple Macintosh Plus on an AppleTalk network connected to an Apple ImageWriter.

**Prices:** \$99.95 for Macintosh and IBM versions; \$69.95 for Apple II version; \$89.95 for Apple IIgs version.

esign Your Own Home: Architecture is a flexible tool for easily creating floor plans, graphs, charts and architectural drawings. This program is one of three computer-aided design programs in the Design Your Own Home series. The others are Interior Design and Landscape Design. This program is completely independent of the others, although the IBM version includes all three programs on one disk. The Macintosh version reviewed here is far easier (and more fun) to use than an early Apple II version reviewed in *Online Today* in 1987.

Architecture lets you create quick, precise architectural plans. You can create floor plans, top views and side views of buildings. These drawings can be saved as picture files on disk and printed out. The plans also can be edited.

Getting started with the system is easy. The program runs from a standard Macintosh window. By following the manual, I was able to "design" my own house.

Drawing lines is the most basic operation of any design program. The drawing tools palette appears on the left side of a document window. The expected tools appear, including line, hollow line, rectangle, rounded rectangle, oval, arc and polygon. A "sketch" option can be used when none of those tools fit. There also is the option of including text on the screen, and text may be entered in any font supported by the computer and printer.

To draw lines, simply mark points with

the mouse and the line segment appears. Thin lines to be used as room partitions, windows or doors can be drawn by using the dash. Perfect right angles can be created easily. Once a few lines are drawn, objects can be placed in the "rooms."

The Object menu lets you choose predrawn architectural objects. The choices include bathroom fixtures, doors, windows, furniture, stairs, electrical and chimneys. Simply click on an object and click "OK." The object is placed into the active window, and the selector is activated so you can position it.

More than 100 predefined shapes also are available. They include geometric shapes such as squares and circles, structural components such as pillars, outlets and light fixtures, and household items such as bathtubs. Those shapes may be combined and rotated. For those who wish to go beyond the predesigned shapes, the program includes a customized shape utility that lets users design their own. You can use the "group" option to combine related options and save them together on a disk.

A limitation of the program is the way it scales. If you choose a rectangle and decide to make it larger or smaller, the operation works rather well. With user-created shapes, however, scaling causes considerable distortion. Some shapes are available in several sizes—arcs, pillars and squares, for example. Others must be redrawn if the user decides a different size is needed.

Another limitation of the program is that the size of a drawing is limited by the size of the screen. There is no scrolling to accommodate larger-than-screen drawings.

The measuring and dimensioning capabilities of the program are impressive. They are handled by the "dimension calculator." Feet can be measured to one decimal place and angles to two decimal places. Without drawing, you can know immediately how far any point on the screen is from any other point, what the horizontal and vertical offsets are and what the measure of an angle is.

An "Adjust" menu offers several attractive and powerful features. A "bring to front" option lets you arrange the stacking order of selected objects. A "rotate" option lets you rotate objects left, right or 90 degrees. A "flip" option will change objects from left to right horizontally or top to bottom vertically.

The program documentation includes a 60-page manual that works well as a tuto-

rial but not so well as a reference book. There is no index, but an excellent four-sided reference card is included.

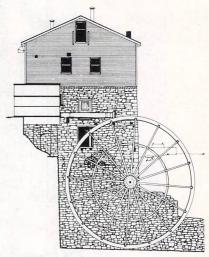
Architectural design with this program requires no special knowledge of drafting or design techniques. And it is a great deal of fun to use. For those who wish to think about their ideal home in concrete terms, this program is an excellent choice.

But the program is not an appropriate choice for professional architects and designers. The speed with which the program operates and the resolution that the screen offers make it inappropriate, as do the limitations on the size and placement of objects. A conversation with the developer revealed that the program was designed with the help of an architect who wanted a quick and inexpensive way to develop concepts. It does seem especially appropriate for that use and for the casual home user

#### Reviewed by Brian D. Monahan

Brian Monahan is associate vice president for academic affairs and a member of the computer science faculty at Iona College in New Rochelle, N.Y. His CompuServe User ID number is 70007,3000.

### PRESERVATION PLAN ON IT

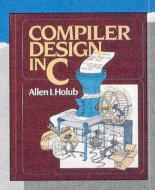


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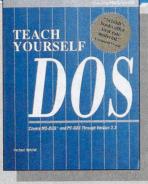
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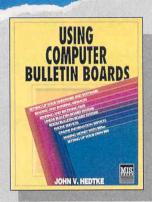
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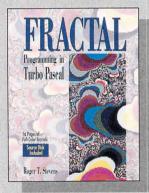
Compiler Design in C. A comprehensive, practical new approach to compilers that's not strictly mathematical. By Allen I. Holub. From Prentice Hall. \$53.33



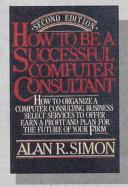
Teach Yourself DOS. Organized into quick hands-on sessions, this is the perfect beginner's guide to DOS techniques. By Herb Schildt. From Osborne. \$19.95



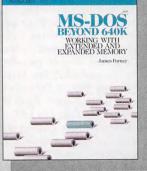
Using Computer Bulletin Boards. Tap into the fun and information of electronic bulletin boards with this in-depth guide. By John V. Hedtke. From MIS Press. \$24.95



Fractal Programming in Turbo Pascal. Get practical, hands-on experience using and developing fractals. Includes source code disk. By Roger T. Stevens. From M&T Books. \$39.95



How to Be a Successful Computer Consultant. Build a profitable business with this guide, updated for the '90s. By Alan R. Simon. From McGraw-Hill. \$19.95



MS-DOS Beyond 640K. Break through the 640K limit and upgrade your machine's power with extra memory suited to fit your needs. By James Forney. From Windcrest. \$19.95

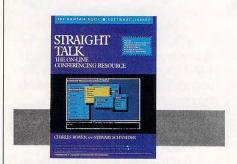
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#### **Book Reviews**

#### **Online Book Reviews**

Following are summaries of book reviews available for reading this month in *Online Today*. To read the complete reviews, type GO OLT-240 at any CompuServe Information Service prompt.



### Straight Talk: The On-Line Conferencing Resource

By Charles Bowen and Stewart Schneider Bantam Books, 1989 274 pages, \$39.95 (softcover, disk included)

This guide book and the accompanying software, which the authors call a "conversation processor," makes conferencing on CompuServe easier and more understandable. Reviewer Paul A. Gilster says the advent of *Straight Talk* is a sign that online conferencing is coming of age. *GO OLT-5500* 

### The Complete Handbook of Personal Computer Communications

By Alfred Glossbrenner St. Martin's Press, 1989 405 pages, \$18.95 (softcover)

The third edition of this "Bible of the Online World," as it is subtitled, offers useful, practical and understandable information about a number of online database services. Reviewer James Moran says this book is for anyone who wants to know more about personal computer communications. *GO OLT-5510* 

#### The Big Mac Book

By Neil J. Salkind Que Corp., 1989 898 pages, \$27.95 (softcover)

Although the author calls the book the final word on the Apple Macintosh, reviewer Susan Katz disagrees. She faults in particular the presentation of the information and the author's imprecise use of language. *GO OLT-5520* 



#### IBM PS/2 User's Reference Manual

By Gilbert Held John Wiley & Sons, 1989 406 pages, \$24.95 (softcover)

Ideal for the first-time computer user, this book offers well-written explanations of fundamental PS/2 system commands as well as some advanced commands. Reviewer Robert Sanchez criticizes the unattractive illustrations and poor graphical presentation of the text, and concludes that it falls short of being a comprehensive work. *GO OLT-5530* 



#### Microsoft Works for the Apple Macintosh (Second Edition)

By Charles Rubin Microsoft Press, 1989 432 pages, \$19.95 (softcover)

A primer for beginning and intermediate Microsoft Works users, this book offers not only basic explanations of how each application functions, but also how each can be applied to solve real business and computing problems. Reviewer Sharon Kahn calls it a nuts-and-bolts book that will make life with Works a bit easier. *GO OLT-5540* 

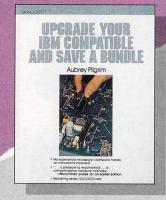


#### Desktop Publishing By Design

By Ronnie Shushan and Don Wright Microsoft Press, 1989 384 pages, \$19.95 (softcover)

Saying he was genuinely thrilled to find this outstanding book, reviewer William J. Lynott says it is skillfully presented, packed with helpful information and is an ideal source for Aldus PageMaker users. *GO OLT-5550* 

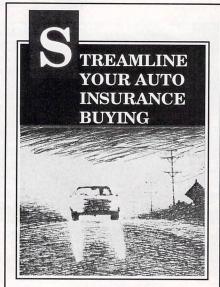
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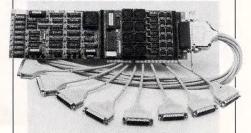








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A list of hundreds of systems presently on-line include many major corporations, along with hundreds of successful start-up firms. All report their complete satisfaction with this unique product; it runs under nothing more than DOS.

Extensive upload options allow the organization and presentation of data, graphics, text and program files into an easy-to-use download library available to users so authorized.

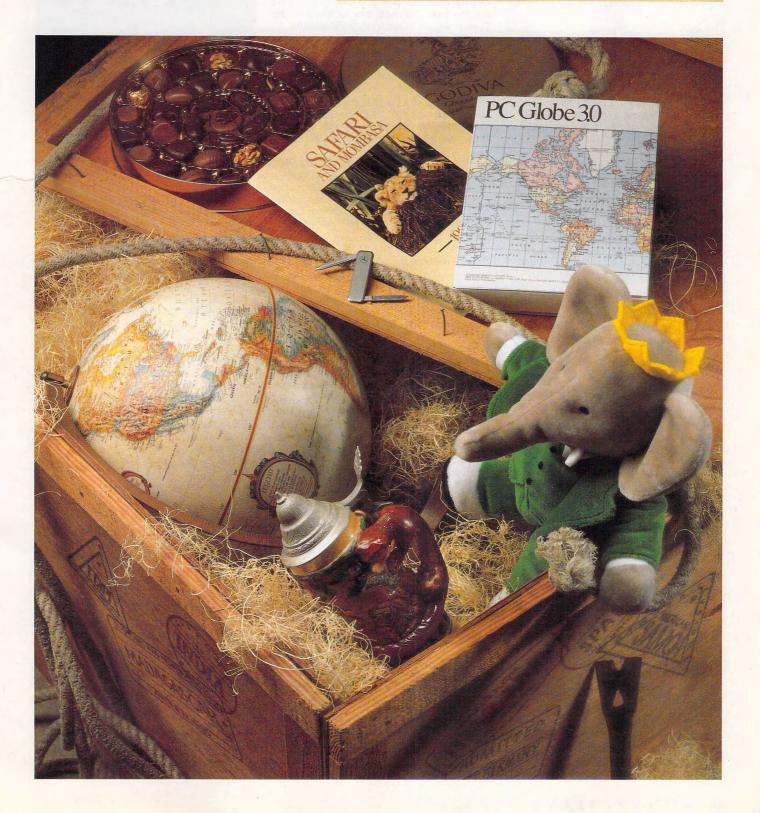
On-Line's system installs within minutes right out of the box, and comes with a 30-day money-back guarantee.

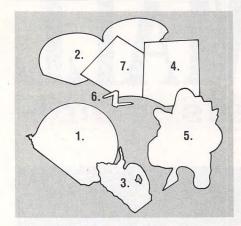
### If You Need More Information

To learn more about this revolutionary software system, call Bill Jones at 805/650-0188. For the nominal fee of \$10, he'll arrange to have demonstration disks, full documentation, case studies, a comprehensive "how-to" handbook, and information about the On-Line Store's exclusive "instant business" add-on modules rushed to you via return mail.

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#### 4. PC Globe Plus 3.0.

Features updated information on 177 countries, including health, economic and trade data, tourist attractions, visa requirements, fully integrated maps and more. Supports CGA, EGA, VGA or Hercules. For IBM computers. From Computer Express. GO CE \$48.97.

5. Babar, France's most famous elephant. The beloved king of the elephants has delighted children for more than 50 years. Crafted by Gund.® 14-inch tall. Babar books, cassettes and videos also are featured. From Museum of Fine Arts, Boston. GO FA \$40. Members: \$36.

Mercedes Benz pocketknife.

German craftsmanship at its finest. Satinfinished, stainless steel knife and nail file cleaner with the legendary Mercedes Benz logo. Imported by Barlow-Salm.

From Price Motor Cars. GO PRC \$11.39.

#### 7. On safari in Africa.

The vacation of a lifetime from Jet Vacations/ Air France. Request a free, full-color brochure. From Air France. GO AF Ford sponsors Grand Prix conference.

Attention racing enthusiasts! The Detroit Grand Prix is Sunday, June 17, and Ford Motor Co. is sponsoring a **live** post-race conference from 7 p.m. to 9 p.m. EST. Log on and talk **free** of connect-time fees with Ford's Special Vehicle Operations racing experts, who will report on the race and answer questions about Ford motor sports events. Visit Ford's Electronic Showroom for details on the drivers and engineers who will appear. GO CONVENTION.



The weekend of June 16 is the perfect time to explore the Ford Electronic Showroom. Connect time is **free** from 12:01 a.m. on Saturday, June 16, through 11:59 p.m. on Sunday, June 17. View Ford's new line of cars, trucks and vans, including the Explorer, at the Ford Electronic Showroom. Request free, color brochures or locate the dealer nearest you. GO FORD.

Walden Computer Books and Software Discounters of America announce service overseas. Due to overwhelming demand from CompuServe members around the globe, Walden Computer Books has announced service to Europe, Asia and Japan. Beginning June 1, far-flung members can order hundreds of computer titles online. For complete shipping rates and a list of countries served, see the Customer Service section at Walden Computer Books' Mall store. Connect time is free every weekend at Walden Computer Books. GO WB.

Software Discounters of America, a leading source of software for IBM, Macintosh, Apple, Amiga, Commodore 64/128 and Atari ST computers, has begun to ship overseas. For a list of delivery destinations and shipping rates, visit Software Discounters of America. GO SDA. Many other Mall merchants welcome overseas orders, including Alaska General Store (GO AK), Artwear/Outwest (GO AO), Austad's Golf Shop (GO AU), Brooks Brothers (GO BR), Coffee Anyone ??? (GO COF), Computer Express (GO CE), Court Pharmacy (GO RX), Direct Micro (GO DM), Hammacher Schlemmer (GO HS) and Windham Hill (GO WH). See The Mall Directory on pages 56 and 57.

#### Plan a summer vacation, toll-free.

For vacation planning, take a **connect-free** trip to AT&T Toll-Free 800 Directory. Hundreds of toll-free numbers for travel and transport services are featured online, including more than 200 airlines that offer toll-free schedule and fare information.

Prefer the high seas to the friendly skies? See AT&T's 800 listings for boat rentals, charters and cruises. For a room with a view, try bed-and-breakfasts, hotels and time-sharing plans. Bound for Bermuda or Boston, Costa Rica or California? Request free information from the local tourist bureau first. Before your next trip, take a trip to AT&T 800 Directory. Remember connect time is always free at AT&T Toll-Free 800 Directory! GO ATT

#### GO 99 and Find It Fast!

Go online to order items pictured in *Go Mall* by typing 99 after any Mall merchant's GO command. For example, select an item featured on the cover, type the merchant's GO command followed by 99 (i.e., GO CE99) and zip to a list of the merchant's featured products. It's that easy.

#### Plus...

Read about **free-connect** weekends at your favorite Mall stores and new merchants in *Goings-On At A Glance* on page 58.

#### What the heck is "free connect"?

When you browse in participating merchants' online stores during **free-connect** weekends, you pay **no** standard CompuServe connect-time rates while shopping in that store. Although applicable communications surcharges *remain in effect*. An up-to-date list of free-connect weekends always can be found online in "Mall Headlines and Happenings."

Go Mall, published monthly in CompuServe Magazine, is a shoppers guide for The Electronic Mall, a service of CompuServe Incorporated. For more information call 614/457-8600.

Editors: Cindy Morgan, Kirk Donnan, Denise Erwin Anderson and Pam Busch. Art Director: Thom Misiak. Design: Dorothy Hogan.

### A. Gimmee Jimmy's Cookies for gourmet cookies galore.

Get set to tempt your taste buds. Gimmee Jimmy's Cookies is baking another batch of fresh, delicious cookies. Using mom's secret recipes and only the finest ingredients, including fresh eggs and butter, Gimmee Jimmy's makes gourmet cookies. But the story does not end with outstanding cookies. Jimmy, the man behind the operation, is a deaf entrepreneur, who started his cookie business in his home six years ago. Today, Gimmee Jimmy's Cookies employs other hearing-impaired people, operates out of its own bakery and ships cookies anywhere in the United States. Choose from traditional flavors, such as chocolate chip, oatmeal raisin or peanut butter. Go a little nutty with pecan chocolate chunk or double chocolate walnut. Splurge with "Sinful Surprise," sinfully rich cookies made with chunks of white chocolate and fresh macadamia nuts. Opt for Jimmy's "Flavor of the Month." Mix and match, too. Gimmee Jimmy's is always glad to fill custom orders of favorite combinations. Order a regular tin of 30 cookies (\$16) or a large tin of 50 cookies (\$21). For cookies to go, visit Gimmee Jimmy's Cookies, GO GIM.

Gimmee Jimmy's Cookies' grand-opening, free-connect weekend is June 9 and 10.

### B. Chocolates, candies and nuts at Helen Hutchleys La Dolceria.

Indulge your sweet tooth with Smidgens bitesize chocolates, jelly beans or gummy bears. Say "Happy Birthday" or "Get Well Soon" with a box of truffles in more than a dozen gourmet flavors, including cool creme de menthe, delectable black forest, bewitching champagne and exquisite cherry cheesecake. Treat the kids to a box of Carmel Critters or an assortment of cute milk chocolate lollipops. Helen Hutchleys La Dolceria, a family owned and independently operated sweet shop located in northern Ohio, offers shoppers a mouth-watering selection of gourmet candies and nuts. Featured online are boxed nuts, including pistachios, almonds, peanuts and pecans, all salted or unsalted. Licorice, Iollipops and seasonal foil-wrapped chocolates. Peanut brittles and toffees. Gift selections for every holiday and occasion. For dieters, there is a line of dietetic chocolates. For delivery, opt for ground UPS, second-day or overnight service. For a nominal charge, Helen Hutchleys La Dolceria will gift wrap your selection and enclose a gift card, too. Stop by Helen Hutchleys La Dolceria and treat yourself to something sweet. Complete product lists are available by mail or fax. GO HH. Helen Hutchleys La Dolceria's grandopening, free-connect weekend is June 9 and 10.

#### Find It Fast

Type 99 after any Mall merchant's GO command (i.e., GO CE99), and zip to a list of the merchant's featured products.

















#### **HOT TICKETS**

#### New for the '90s.

**A.** Tour de France winning racer. This aerodynamic time-trial bicycle is the same model used by the 1989 winner of Europe's most grueling race, the Tour de France. Offered exclusively by Hammacher Schlemmer and custom-built to personal specifications by Bottechia of Italy. From Hammacher Schlemmer. GO HS **\$12,000.** 

#### **B.** Introducing Scoop, the artificial sweetener with no equal.

Scoop— a mixture of acesulfame-K, which has been available in Europe for nearly 10 years, and NANCI's soluble fiber—is now available in the United States. Acesulfame-K and NANCI's soluble fiber are on the GRAS (generally regarded as safe) list. Scoop has no calories, no artificial additives and does not break down in heat.

From Prevention Systems. GO PS **\$9.95** per 100 pack/box.

#### C. Trivial Pursuit, the PC edition.

Challenge any of six computer opponents—each with its own trivia strengths and weaknesses. Features include customized editions from 30 available subjects, superior graphics with CGA or EGA display, and more. One to four players. For IBM PC, PC-AT and Tandy. From Computer Express. GO CE \$25.97.

#### D. Lifecycle 6500.

The ergonomically designed computer console offers 12 levels of intensity, hill-profile interval training and random and manual programs for nearly 1 million different rides. Comes with 20-minute instructional video, operation manual and a personal training log. Free Tunturi seat cover with purchase! From Push Pedal Pull Fitness. GO PPP \$1,595 plus shipping and handling.

#### **DOLLARS OFF**

#### Super savings and sales.

#### E. Ceiling fan.

Features include five wood blades, metal canister housing, three-speed reversible motor, pull-chain switch. Choose from a variety of metal finishes. 52-inch diameter.

From Spiegel. GO SGL List price: \$129. Sale price: \$99.

#### F. Bodysmith portable sit-up bench.

Five-position bench breaks down easily for convenient storage. 55.5-inch length, 16-inch width and 29-inch height.

From Push Pedal Pull Fitness. GO PPP List price: \$99.

Sale price: \$79 plus shipping/handling.

A. Users Guide beginner's package.

Includes Financial Services Users Guide, CompuServe Users Guide and CompuServe Almanac. Shop free of standard connect-time fees every day.

From CompuServe Store. GO ORDER List price: \$41.85.

Sale price: \$24.95.

#### B. Deals on diskettes.

High-quality bulk and boxed, brand-name diskettes. Bulk media is available in traditional black for 5.25-inch product, standard blue or fog for 3.5-inch product. Prices start as low as 27 cents per 5.25-inch diskette and 59 cents per 3.5-inch diskette.

Also, color diskettes. Sold in lots of 10, select white, yellow, orange, green, red, blue, burgundy or gray for the 5.25-inch diskette. 39 cents each. For the 3.5-inch diskette, select yellow, orange, green or red. 79 cents each. From Direct Micro. GO DM



#### Summer sizzlers.

#### C.D. Exotic swimwear.

New! Samantha Lee Leather and Suede Swimwear. Made of the finest imported lambskin, these suits are 100 percent wearable in fresh, chlorinated and salt water. Pictured here, imported Solar men's bikini sizes small through extra-large (\$37) and women's bikini sizes 5/6 through 13/14 (\$48). Both available in color combinations, including royal/black, neon lime/purple and orange/black. Also online, the "Jungle Bandeau Style," a twopiece swimsuit in buff or the palest pink (\$110). Say farewell to tan lines with all-new Solar Tan Thru Suit. Completely opaque to the human eye when worn against the skin wet or dry, the Tan Thru Suit allows the penetration of the sun's rays while offering the equivalent of an SPF 10 lotion!

From Some Things Special's Unique Boutique. GO SP

#### E. The Duet by Simac.

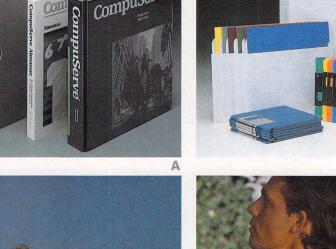
New! Made in Italy. Makes two flavors of ice cream or sherbet simultaneously. Simply freeze the bottom unit overnight, pour the ingredients in and turn on about 25 minutes. From Chef's Catalog. GO CC \$99.

F. Goodbye to poison ivy itch.

Introducing TECNU, a salvation for poison ivy sufferers. Use TECNU within two to eight hours after exposure to poison ivy, oak or sumac, and it will prevent the rash! If you expose yourself unknowingly and the rash appears, apply TECNU to relieve the itching immediately. Inhibits spreading and speeds healing, too. A must for every summer medicine chest. 16-ounce bottle.

From Williams & Eeden Garden Center. GO WE \$12.95.





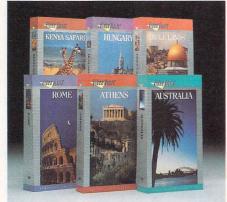




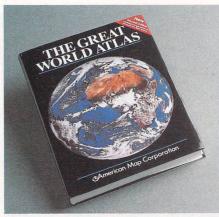
















#### A. JCPenney introduces Golf Shop.

Visit the new Golf Shop at JCPenney for clothing, clubs and accessories. Men's slacks, polo shirts and shorts from Par Four,® as well as graphite drivers from PGA touring pro J.C. Snead. Wilson® and Spalding® golf bags. From JCPenney. GO JCP

#### B. Armchair travels.

See it before you go with Video Visits award-winning series. Featured sojourns include Athens and the Greek Experience; Journey Through the Bible Lands; Kenya Safari: Essence of Africa; Moscow and Leningrad; Rome: The Eternal City; and Australia: Secrets of the Land Down Under. More than 35 programs, 55 to 60 minutes in length. From Yes! Books & Videos. GO YB \$24.95 each.

\$24.95 each.

**C.** The world delivered to your door. Indulge your wanderlust with a subscription from Publishers Clearing House. Travel magazines, including *European Travel & Life*, *Travel & Leisure*, *Islands*, *British Heritage* and *Cruising World*, are offered.

From Publishers Clearing House. GO PUB

#### D. The Great World Atlas.

Published by the American Map Co., this oversized volume boasts 352 pages, including 120 full-color maps and 32 full-color satellite photographs. 13.75 inches by 10.25 inches. From The Stationery Center. GO SC \$49.95.

#### E. Egyptian Sakkara scarf.

Exclusive pure-silk scarf adapted from a late fifth-dynasty wall fragment found at Sakkara, Egypt. 35-inch square crepe de chine. From Museum of Fine Arts, Boston. GO FA \$39.50. Museum members: \$35.55.

#### F. ProTech® 2 travel golf bag.

Made of high-density polyurethane that is impact-resistant and durable, ProTech 2 protects your clubs against travel abuse. When the hood is removed, the ProTech 2 doubles as a golf bag to use on the course. Features foam-padded shoulder strap and molded-in carrying handle.

From Austad's Golf Shop. GO AU \$199

#### Soccer madness.

The sport for the '90s is sweeping Italy and the world! Superior construction, high performance, regulation size 5 Rawlings soccer ball. Top-grade leather cover with strong nylon cord winding. \$39.99. Also, junior size 4 (\$36.99). Quality synthetic leather balls by Mitre, too, in official size 5 (\$26.99), junior size 4 (\$24.99) and youth size 3 (\$22.99). From The Sport Source. GO SS

#### Find It Fast

Type 99 after any Mall merchant's GO command (i.e., GO CE99), and zip to a list of the merchant's featured products.

PUSERVE MAGAZINE

#### Nissan's 1990 Stanza for performance and practicality.

Discover the Nissan 1990 Stanza, a car that combines performance and practicality. With its 2.4 liter, 138 horsepower, multivalve, sequential fuel-injected engine, the Stanza has the most powerful standard engine in its class, plus more muscle than most of the competitors' optional engines. Comfort, reliability and economy make it a great family car, too. See how the Stanza stacks up against the competition online. Request a free color brochure.

From Nissan Motor Corp. GO NI

#### A. AT&T Toll-Free 800 Directory boasts special offers.

Visit AT&T 800 Directory for details on more than two dozen special offers available to consumers and businesses. Talbots, for example, offers a free Talbots catalog and a \$10 gift certificate good toward a purchase of \$50 or more. For details on how to receive a catalog and gift certificate, see the AT&T Toll-Free 800 Directory. Remember, connect time is always free at AT&T 800 Directory.

From AT&T Toll-Free 800 Directory. GO ATT

#### B. Buick PGA Tour events.

Details on upcoming PGA tour events, at which Buick is the official tour car. This year, Buick will sponsor events, including the Buick Westchester Classic at the Westchester Country Club, June 18 through 24, and the Buick Open at the Warwick Hill Golf and Country Club in Grand Blanc, Mich., July 23 through 29. Information on both events is featured online. Remember, connect time is always free at Buick.

From Buick Magazine. GO BU

#### In the lap of luxury: The Baden-Baden Spa Program.

Air France/Jet Vacations introduces the Baden-Baden Spa Program. Pamper yourself with this deluxe holiday package. Includes round-trip, economy class air fare on Air France between New York and Strasbourg; seven nights at the spectacular Brenner's Park Hotel; three meals daily; and more. Prices subject to change.

From Air France. GO AF

May 19 through Sept. 29: \$2,950 per person. Oct. 6 through Oct. 27: \$2,724 per person.

#### C. Sweet dreams in Paris and the Provinces.

Traveling to France this summer? Drive a Renault and enjoy the advantages of hotel reservation service at "Country Hotels of France" (Les Logis de France et Les Grandes Etapes Francaises). Request a free brochure at France Info first. Logis de France offers a choice of more than 200 charming inns and small hotels throughout the Provinces and Paris. Prices start at \$48 a night. Looking to splurge a little? Consider one of the 10 exquisite chateaux in idyllic country locations available through Les Grandes Etapes Francaises. Rates start at \$155 a night. From France Info. GO FI

#### Traversing the globe with OAG.

Capsule descriptions of all that OAG has to offer, including print directories. A direct link to the surcharged Official Airline Guides Electronic Edition Travel Service, which features electronic fare and schedule information for international and domestic flights, Zapodel's Adventure Atlas, State Department Travel Advisories, All Cruise Travel listing more that 2,000 cruises worldwide at the best prices, and much more.

From Official Airline Guides. GO OA

#### Six CDs for the price of one.

Discover the compact disk difference. Build your CD library quickly and economically. Join the CD Club online and receive six compact disks for the price of one. Take four free when you join. Buy just one more selection at a regular club price in the next year. Then choose another free CD as a bonus! That's six CDs for the price of one. There's nothing more to buy-ever. Join online and make your selection from nearly 1,000 titles. Choose classical, country, easy listening, hard rock, soft rock or new releases. Mix and match. The choice is yours. Complete membership details online. Ordering for current members, too.

From The CD Club. GO CD

#### D. Learn computer basics.

At last, a series that answers all your questions, basic or advanced, about computers in plain English. It's Time-Life's Understanding Computers. Complete details online.

From Time-Life Books and Videos. GO TL



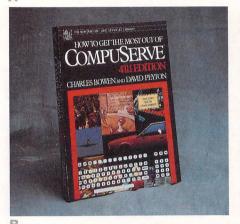


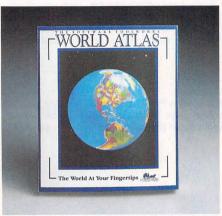


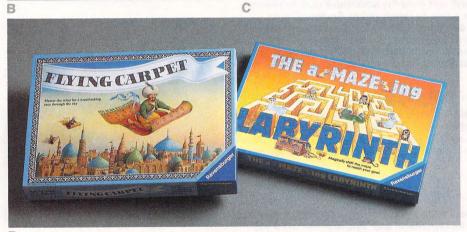
















A. Speaking in tongues.

Learn a foreign language with Vocabu-Learn/ce HyperCard software for the Macintosh by Penton Overseas. Available programs include French, German, Italian and Spanish (\$29 each). Also available, Japanese (\$35 each). Shop MacWarehouse free of connect-time fees every weekend in June. From MacWarehouse. GO MW

B. How to Get the Most Out of CompuServe. fourth edition.

David Peyton's and Charles Bowen's bible to getting around on CompuServe. Includes a \$12.50 usage credit. Shop free every day. From CompuServe Store. GO ORDER \$19.95.

**C.** Electromap World Atlas for CD-ROM. An atlas, almanac and world fact book, all in one. Features spectacular graphics and more than 200 stunning full-color maps. CD-ROM, 5.25-inch, 5.25-inch hard drive and 3.5 inch. From The CD-ROM Store. GO RS

D. Ravensburger games.

\$159.

Imported from Germany, Ravensburger educational board games include *Rivers, Roads and Rails* (\$14.95), *Enchanted Forest* (\$18.95), *Flying Carpet* (\$20) and *The aMAZEing Labyrinth* (\$20.95), winner of a Parent's Choice Gold Seal Award.
From Hobby Center Toys. GO HC

E. Sangean ATS-803A world band radio. Full-featured yet compact, the 803A is the standard by which all world band radios are judged. Features include AM/FM/LW and 12 shortwave bands with FM stereo. Also auto scan and BFO for single side-band reception of government, aircraft and marine transmissions. Full one-year warranty. From Miltrobe Electronics. GO MI \$199.95.

**F.** Stock up on batteries and film. Going on vacation? Court Pharmacy carries Duracell batteries (AA, AAA, C and D) and Kodacolor print film (100, 200 and 400 ASA/24 and 36 exposure) online. Spend \$50

or more and shipping is free. From Court Pharmacy. GO RX

Safeware offers international policy.
Policy covers not only computers, but also

protects business equipment, such as fax machines, portable copiers, audio visual and medical equipment. Complete details online. From Safeware. GO SAF

TSR Games Catalog.

Request a free copy of TSR Games
Shoppe's full-color catalog of games. Jampacked with the games people play, including
Runequest, ElfQuest, Star Trek, Playboy\*
Elegant Lifestyles, Buck Rogers and Hunt for
Red October. Plus Dungeons & Dragons.
From TSR Games Shoppe. GO TSR
Free.

#### A. Packed to go.

Luggage and backpacks from Eastpack, Samsonite, Boyt and Dilana. Pictured here is Dilana's leather carry-on. Buttery soft, surprisingly lightweight and made to last. The 21-inch, three-zipper carry-on fits easily under an airline seat. Monogram on request. \$129, delivery included. Also, travel accessories, including a Franzus voltage converter kit (\$18.49), a five-language translator by British Boston (\$79.95), passport cases and more. From Sharon Luggage and Gifts. GO SL

**B.** The Chef's Catalog around the world. Cooking ethnic has never been easier. For oriental, consider the Calphalon flat-bottom wok (\$79.99), pictured here. Feel like something French? Consult Julia Child's *The Way to Cook* (\$39.95). Pasta perhaps? Make your own with the new Simac Pastamatic from Italy (\$225). Includes eight disks to make everything from spaghetti to lasagna—in only eight minutes! Sorry, USA-shipping only. From The Chef's Catalog. GO CC

#### C. Soups de jour.

A six-pack of vichyssoise, the classic French soup made of leeks and potatoes. Usually served cold, this is the perfect soup for warmweather entertaining. Also available, French onion soup, consomme madrilene and other varieties.

From Pepperidge Farm. GO PF **\$11.50** per six-pack.

#### D. Fruit of the tropics.

Imperial Caribbean pineapples and tropical mangoes. Available June through August. Also, the Summer Luau, a delicious combination of tropical specialties perfect for summer enjoyment. Includes mangoes, Caribbean pineapple, coconut, limes and tropical fruits. 18-pound, %-bushel.

From Florida Fruit Shippers. GO FFS \$28.95.

#### E. The Giorgio collection.

The pure, unparalleled pleasure of Giorgio Beverly Hills now is available at Spiegel. Featured for him, Extraordinary cologne, 4 ounces (\$35); after-shave lotion, 4 ounces (\$25); and after-shave balm, 4 ounces (\$22.50). For her, Extraordinary perfume, 1 ounce (\$170); spray cologne, 3 ounces (\$47); body treatment cream, 5 ounces (\$45); among others.

From Spiegel. GO SGL

Travel the globe with Coffee Anyone???.™ Savor coffees from exotic locations, including Brazilian Santos (\$6.60 per pound), Colombia Supremo (\$6.95 per pound), Ethiopian Harrar (\$8.40 per pound), Arabian Mocha (\$15.50 per pound) and the all-new Indian Mysore (\$7.95 per pound). See online tasting chart. From Coffee Anyone??? GO COF

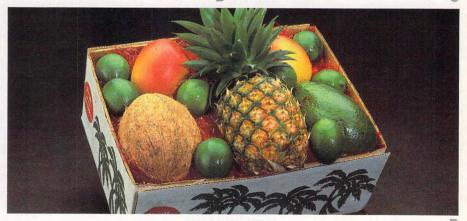
#### Find It Fast

Type 99 after any Mall merchant's GO command (i.e., GO CE99), and zip to a list of the merchant's featured products.











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- 1

The Electronic Mall Directory is designed to assist you with information about each of our merchants. All entries contain three lines as follows:

#### Merchant Name [GO Command]

Description of products/services Billing options Countries served

An example entry would look like this

#### ABC NOVELTY STORE [ABC]

Books, knick-knacks, collectibles VI/MC/AM/CSH US/CD/JP/OT

You may visit the ABC NOVELTY STORE by using the quick reference word (GO ABC) at any CompuServe Information Service ! prompt.

Billing options codes indicate the methods of payment the merchant

VI - VISA MC - MasterCard AM - American Express DI - Diners Club

DIS - Discover Card

SC - Merchant's own store card COD - COD CSH - Cash, check, money order DB - Direct bill NA - No billing applies (Advertiser only)

Country codes indicate the countries the merchant is able to ship to as follows:

US - United States CD - Canada

JP - Japan

OT – Other foreign countries

Catalog options for merchants offering catalogs are indicated by the following codes.

Offers free print catalog.

Denotes electronic order form for use with print catalog.

Credits cost of print catalog toward purchase.

Denotes new merchant

AIR FRANCE [AF] Information on tours, sights and scenes. VI/MC US/CD

ALAMO RENT A CAR [AL] Information on rates, benefits, locations

NA US/OT ALASKA GENERAL STORE [AK] \*\* Alaskan jewelry, ivory, gold, gifts. VI/MC/AM/DIS US/CD/JP/OT

ARTWEAR/OUTWEST [AO] \*\* Hand-designed shirts and jewelry. VI/MC/AM US/CD/JP/OT

AT&T HOME-OFFICE RESOURCES

ONLINE [ATT]
Technology that brings success home. NA US/CD/JP/OT

AT&T TOLL-FREE 800 DIRECTORY

[ATT]
Thousands of toll-free numbers always free of connect- time fees. VI/MC US

AUSTAD'S GOLF SHOP [AU] \*\* Golfing accessories, apparel, gifts. VI/MC/AM/DIS US

AUTOQUOT-R [AQ]
Vehicle price quotation service.
VI/MC/AM US

service.

BRADY BOOKS [BB]

PC books, utilities, software.

BROOKS BROTHERS [BR] \*\*
Fine men's and ladies' apparel and accessories VI/MC/AM/DI/SC US/CD/JP/OT

BUICK MAGAZINE [BU] Free car information, customer

A GUIDE TO INCORPORATING

[INC]
Nationwide incorporating service.
NA US

BUSINESS WEEK [BW] Subscription packages and information. VI/MC/AM/DB US/CD/JP/OT

CD CLUB [CD] \*

Compact disk ordering club.

CD-ROM STORE, THE [RS] CD-ROM drives and accessories. VI/MC US/CD/JP/OT

CDA COMPUTER SALES

[CDA] \* \*
Hardware, printers and accessories.
VI/MC/AM/DIS/CSH US/CD/JP/OT CHECKFREE CORP. [CF]

Electronic banking and bill payment service. VI/MC/AM US

CHEF'S CATALOG, THE [CC] \*\*
Gourmet cookware and kitchen accessories. VI/MC/AM/DIS US

CIGNA INSURANCE [CI] Free personalized auto insurance quotes. NA US

CLASSICAL MUSIC CLUB [CM] \* Classical music ordering club DB US

COFFEE ANYONE ???™ [COF] Original computer coffeehouse, gifts.
VI/MC US/CD/JP/OT

COMPUSERVE STORE [ORDER] Merchandise, literature and software

COMPUTER EXPRESS [CE] \* PC software, hardware, accessories VI/MC US/CD/JP/OT

COMPUTER MART, THE [PD]
IBM-compatible PCs, peripherals.
VI/MC US

COMPUTER SHOPPER [CS] Computer product bargains and information magazine. VI/MC/DB US/CD

COMPUTER SPORTS WORLD [CSW] Sports information database

VI/MC/AM/DI/COD US/CD/OT

CONTACT LENS SUPPLY [CL]
Fast delivery of replacement lenses and more. VI/MC/CSH US

CORNER VIDEO [CV]

Videos, laser disks and accessories. VI/MC/AM US/CD/JP

COURT PHARMACY [RX] Full-service pharmacy and gift shop. VI/MC/AM/DI/DIS/COD US/CD/JP/OT

CRABTREE & EVELYN [CR] \*
Beauty products, sweets, gift packs.
VI/MC/AM US/CD

CREATE-A-BOOK [CK]
Fun books that make your child a star. New! GO CK for details.

#### D

DIRECT MICRO [DM] \*

Discount computer disks and VI/MC/COD US/CD/JP/OT

DISCOUNT MUSIC SUPPLY [DMS] \* Guitar effects and accessories VI/MC/COD US/CD/JP/OT

DOW JONES & CO. [DJ]

Business and financial periodicals. VI/MC/AM US/CD

DREYFUS CORP. [DR]
Mutual funds and investment information. US

EDUCATIONAL ADVISORY
SERVICES [EA]
Financial aid search service.
VI/MC US

EXECUTIVE STAMPER [EX] \*\* Rubber stamps, engraved gifts. VI/MC/AM/DI/DIS US/CD/JP/OT

FLORIDA FRUIT SHIPPERS

[FFS] Premium fruit and gift shippers.

VI/MC/AM US/CD/JP/OT

FLOWER STOP [FS] Flower and gift delivery service. VI/MC/AM/DI/DIS US

FORD MOTOR CO. [FORD] Car and truck information, dealer locator. VI/MC US/CD

FRANCE INFO USA [FI]
A kiosk of information about France.
VI/MC/AM/COD/DB US/CD/JP/OT

GIMMEE JIMMY'S COOKIES [GIM] + Gourmet cookies, custom orders New! GO GIM for details.

GODIVA CHOCOLATIER [GC] ■ \* Gourmet chocolate and gifts VI/MC/AM US

H&R BLOCK [HRB]
The income tax people

HAMMACHER SCHLEMMER
[HS] \*
Gifts, unique and unusual products.
VI/MC/AM/DI US/CD/JP/OT

HEATHKIT [HTH] \*

Build-it-yourself electronic kits, etc.

VI/MC/AM/SC US/CD

HELEN HUTCHLEYS LA DOLCERIA [HH] \* † Chocolate, nuts and candy. New! GO HH for details. VI/MC/AM US

HOBBY CENTER TOYS [HC] Hobbies, trains, dolls and games. VI/MC/AM/DI/DIS/CSH US/CD/JP

INSURANCE INFORMATION INC. [II] Home, term life and auto insurance information. US VI/MC/AM

JCPENNEY [JCP] \* Apparel, furnishings, electronics. VI/MC/AM/DI/DIS/SC US

LASER'S EDGE. THE [LE] Your one-stop laser video store VI/MC/AM/DIS US/CD/JP/OT

LOBSTER EXPRESS [LOB] Seafood gift pack specialist CSH US/CD

MACUSER [MC]
Save 58 percent and receive free gift. VI/MC/DB US/CD

MACWAREHOUSE [MW] \* Macintosh hardware, software and equipment.
VI/MC/COD US/CD/JP/OT

MARYMAC INDUSTRIES [MM] Official Radio Shack dealer. VI/MC/AM/DIS/CSH US/CD/JP

MAX ULE DISCOUNT BROKERAGE

[TKR] Brokerage and financial information retrieval. CSH US/CD/JP/OT

MCGRAW-HILL BOOK CO. [MH] ■ \* Business, finance and computer books.

VI/MC US/CD/JP MENTOR TECHNOLOGIES [MN] Authorized CompuServe training.

MICROWAREHOUSE [MCW] \*\*
Hardware, software and equipment

VI/MC/COD US/CD/JP/OT

MILTROBE ELECTRONICS Consumer electronics, tools, gifts. VI/MC/CSH US/CD

MONEY'S FINANCIAL MARKET [MFM] Personal finance tools from *Money*. VI/MC/AM US

MUSEUM OF FINE ARTS,
BOSTON [FA] \*
Gifts and classic reproductions. VI/MC/AM US/CD/JP/OT

MUSIC ALLEY ONLINE [MAO]
Mixers, synthesizers, keyboards, etc.
VI/MC/COD US/CD

NEWSNET [NN]
Specialized business news database service NA US/CD

NISSAN MOTOR CORP. IN THE USA [NI] Nissan cars, trucks, accessories VI/MC US

OCEAN ISLE SOFTWARE [OI] Neurobics: PC adventures for your VI/MC

ODONYX SCIENTIFIC [DU]

Pharmaceutical, medical and lab supply.
VI/MC/AM/DIS US/CD/JP/OT

OFFICIAL AIRLINE GUIDES [OA] Information on online services; air and hotel guides. VI/MC US/CD

ONLINE STORE [OS]
Computer accessories, hardware.
VI/MC/AM/DI US

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tone equipment VI/MC/COD

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**PUBLISHERS CLEARING** 

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Magazine subscriptions at low prices.
VI/MC US

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equipment VI/MC/AM/DIS US

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VI/MC/AM/DIS US

RECORD AND TAPE CLUB [RT] \* Record and tape ordering club US

RENT MOTHER NATURE [RM] \*\* Nature's gifts, leasing programs, etc VI/MC/AM US/OT

RIN ROBYN POOL 'N PATIO [RR] Pool and patio, outdoor items VI/MC/AM US/CD/JP/OT

SAFEWARE COMPUTER
INSURANCE [SAF] 
High-tech equipment insurance.
VI/MC US/CD/JP/OT

SHARON LUGGAGE AND GIFTS [SL] Luggage, fine leather goods and unique gifts.
VI/MC/AM US/CD/JP/OT

SHOPPERS ADVANTAGE CLUB

Discount shopping club. VI/MC US

SIMON DAVID [SIM] \*\* Gourmet foods, meats from Texas. VI/MC/AM/DIS US/CD/JP/OT SMALL COMPUTER BOOK CLUB [BK]

Quality computer books. DB ÚS/CD

SOFTWARE DISCOUNTERS OF AMERICA [SDA]
Software for a wide range of

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SPIEGEL [SGL] 

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STATIONERY CENTER, THE [SC] \*\*

Office supplies, furniture, etc. VI/MC/AM/DIS/COD US/CD/JP

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VI/MC/COD US/CD/JP/OT

TIME-LIFE BOOKS AND VIDEOS [TL]
Books, music and video series.
VI/MC/AM US

TRW CREDENTIALS [CRE] Know the details of your credit status. VI/MC/AM US TSR GAMES SHOPPE [TSR] Adventure, fantasy games and accessories. VI/MC US/CD/JP/OT

USA TODAY [UT]
Subscribe to the nation's newspaper. VI/MC/AM US

USED CAR PRICE GUIDE [UC] †
Wholesale/retail prices from 1978.
VI/MC US/CD

WALDEN COMPUTER BOOKS [WB] Computer books and accessories VI/MC/AM US/CD/JP/OT

WALTER KNOLL FLORIST [WK]
Plants, flowers and gifts via FTD.
VI/MC/AM/DI/DIS/DB US/CD/JP/OT

WILLIAMS & EEDEN GARDEN
CENTER [WE] \*\*
Flowers, plants and garden tools.
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YES! BOOKS AND VIDEOS [YB] ■ \* A unique collection of books and videos VI/MC/AM US/CD/JP/OT

#### APPAREL/ACCESSORIES

AO Artwear/Outwest ■ \* Austad's Golf Shop
Brooks Brothers
\* AU BR JCPenney • \* JCP Paul Fredrick Shirts Co.
Sharon Luggage and Gifts \*
Spiegel \* PFS SI SGL The Sport Source ■ \* SS

MUSIC/VIDEO ART

**AUTO** 

CD CD Club \* CM Classical Music Club CV Corner Video DMS Discount Music Supply \*\* The Laser's Edge LE Music Alley Online
Museum of Fine Arts,
Boston \*\* MAO FA Radio Doctors ■ \* † RD Record and Tape Club \* Windham Hill \* RT WH YB YES! Books and Videos \*\*

AL Alamo Rent A Car Autoquot-R AG Buick Magazine BU CIGNA Insurance CI Ford Motor Co. FORD Nissan Motor Corp. in the NI PRC

Price Motor Cars † Used Car Price Guide † UC S/PERIODICALS BOO

BB **Brady Books** BW Business Week CS Computer Shopper CK Create-A-Book DJ Dow Jones & Co. McGraw-Hill Book Co. ■ \* MH MC MacUser Money's Financial Market MFM PCC PC/Computing PC Magazine PM Penguin Books ■ \* PB PUB Publishers Clearing House

BK Small Computer Book Club Time-Life Books and Videos TL UT USA Today WB Walden Computer Books

**BUSI** IESS/FINANCE AT&T Home-Office Resources Online ATT

AT&T Toll-Free 800 Directory ATT A Guide to Incorporating INC Business Week BW CheckFree Corp CF

DR Dreyfus Corp. D.I Dow Jones & Co. HRB H&R Block Insurance Information

TKR Max Ule Discount Brokerage MFM Money's Financial Market NewsNet NN **TRW Credentials** CRE

S/MEMBERSHIPS **CLUB** 

Classical Music Club \* CM CD Club \* CD RT Record and Tape Club \* Shoppers Advantage Club \* SAC Small Computer Book Club BK Time-Life Books and Videos TL

COMPUTING

CDA Computer Sales \* \*
The CD-ROM Store CDA RS ORD CompuServe Store Computer Express \* CE PD The Computer Mart CS Computer Shopper Direct Micro Heathkit \*\* DM HTH MC MacUser MacWarehouse ■ \* MW Marymac Industries
MicroWarehouse \*\* MM MCW Ocean Isle Software OI OS Online Store Paradise Technology PC/Computing PCC PM PC Magazine

Programs Plus

**Merchants by Department** Safeware Computer Insurance SAF Software Discounters of SDA America Some Things Special's Unique Boutique \* SP WB Walden Computer Books \*\*

GIFTS/FLOWERS/GOURMET FOODS

Alaska General Store ■ \* AK AT&T Toll-Free 800 Directory
The Chef's Catalog \*\* ATT CC COF Coffee Anyone™ ? Crabtree & Evelyn \* CR Florida Fruit Shippers Flower Stop FES FS Gimme Jimmy's Cookies †
Godiva Chocolatier \* GIM GC Hammacher Schlemmer \* \* HS Helen Hutchleys La Dolceria \* † HH LOB Lobster Express FA

Museum of Fine Arts, Boston \* Pepperidge Farm \*\* PF Rent Mother Nature ■ \* RM Sharon Luggage and Gifts \* SL

Simon David \*\* SIM Some Things Special's Unique Boutique \* SP WK Walter Knoll Florist Williams & Eeden Garden Center \* WE

HEALTH/BEAUTY

Contact Lens Supply RX Court Pharmacy Crabtree & Evelyn \*\* DU Odonyx Scientific PS Prevention Systems \*\* Push Pedal Pull Fitness \*\* PPP HOBBIES/TOYS/PETS

HC Hobby Center Toys TT Tall Tails TSR Games Shoppe ■ \* TSR

Williams & Eeden Garden Center \*

INFORMATION/SERVICES

ATT AT&T Home-Office Resources Online ATT AT&T Toll-Free 800 Directory CIGNA Insurance ORD CompuServe Store Computer Sports World CSW EA Educational Advisory Services Mentor Technologies MN Safeware Computer Insurance SAF **TRW Credentials** CRE

MERCHANDISE/ELECTRONICS

Brooks Brothers ■ \* BR The Chef's Catalog \*\* CC CompuServe Store ORD Court Pharmacy RX Hammacher Schlemmer \*\*
Heathkit \*\* HS HTH JCPenney \* \*
Miltrobe Electronics \* \* JCP MI Shoppers Advantage Club Spiegel \*\* SAC SGL **OFFICE SUPPLIES** 

Direct Micro \* DM Executive Stamper \*\* EX PW

Penny Wise Office Supplies †
The Stationery Center \* SC

SPOR TS/LEISURE

Austad's Golf Shop ■ \* AU CSW Computer Sports World Hammacher Schlemmer \*\*
Push Pedal Pull Fitness \*\* HS PPP RR Rin Robyn Pool 'N Patio The Sport Source \*\* SS

TRAVEL/VACATIONS

Air France AF AT&T Toll-Free 800 Directory ATT France Info USA FI Official Airline Guides OA Sharon Luggage and Gifts ■ \* SL

#### Never a connect-time fee.

 Remember connect time is always free at AT&T Toll-Free 800 Directory (GO ATT) and Buick Magazine (GO BU).

#### FREE SHOPPING WEEKENDS.

Shop **free** of **connect-time** fees at the following merchants on these weekends from 12:01 a.m. Saturday to 11:59 p.m. Sunday.

#### June 2 and 3

Artwear/Outwest GO AO
Brooks Brothers GO BR
Computer Express GO CE
MacWarehouse GO MW
Pepperidge Farm GO PF
Prevention Systems GO PS
Publishers Clearing House GO PUB
Push Pedal Pull Fitness GO PPP
Time-Life Books and Videos GO TL
Walden Computer Books GO WB

#### June 9 and 10

Brooks Brothers GO BR
CIGNA Insurance GO CI
Coffee Anyone???™ GO COF
Helen Hutchleys La Dolceria GO HH
MacWarehouse GO MW
McGraw-Hill Book Co. GO MH
MicroWarehouse GO MCW
Software Discounters of America GO SDA
Walden Computer Books GO WB

#### June 16 and 17

Florida Fruit Shippers GO FFS
Ford Motor Co. GO FORD
MacWarehouse GO MW
Official Airline Guides GO OA
Used Car Price Guide GO UC
Walden Computer Books GO WB

#### Plus!

Ford sponsors **connect-free** Grand Prix conference on Sunday, June 17, from 7p.m. to 9 p.m. EST. GO CONVENTION

#### June 23 and 24

CIGNA Insurance GO CI MacWarehouse GO MW TSR Games Shoppe GO TSR Walden Computer Books GO WB

#### June 30 and July 1

MacWarehouse GO MW TRW Credentials GO TRW Walden Computer Books GO WB

#### July 7 and 8

Brooks Brothers GO BR
Contact Lens Supply GO CL
Publishers Clearing House GO PUB
Time-Life Books and Videos GO TL
Walden Computer Books GO WB

#### Win a year of free software

from Software Discounters of America. How would you like a free software program every month for a year? If you are the grand-prize winner in Software Discounters of America's Summer Sleuth Sweepstakes, it could be yours! For your chance to win, visit Software Discounters of America online and answer a series of questions about its Mall store. All who complete the short quiz correctly will be eligible for the grand-prize drawing. More than 100 special consolation prizes, too. Contest starts Friday, June 1. For complete rules and regulations, GO SDA.

#### Globe-trotting with Windham Hill.

Consult Windham Hill's online International Tour Schedule for a list of Windham Hill artists playing at European festivals this summer. Domestic listings, too. GO WH.

#### From Andorra to Zambia.

Do you have relatives living abroad? Friends visiting a foreign country? Important business contacts overseas? Walter Knoll Florist has you covered. With a network of more than 59,000 florists in 137 countries, you can "say it with flowers" virtually anywhere, including, Argentina, Belgium, China (People's Republic), Czechoslovakia, Denmark, El Salvador, Holland, Hong Kong, Israel, Italy, Liechtenstein, Qatar, Republic of Togo, Scotland, Singapore, Switzerland, Tasmania and Zaire. From Walter Knoll Florist. GO WK.

#### What the heck is "free connect"?

Whenever you read about a free-connect weekend in *Go Mall*, know you can browse through participating merchants' online stores for those two days without paying standard Compu-Serve connect rates. In other words, you pay nothing while you explore a Mall store that's currently offering free connect time.

An up-to-date list of free-connect weekends always can be found online in "Mall Headlines and Happenings." (Though connect-time charges are waived, applicable communications surcharges remain in effect.)

Who says you can't get something for nothing?

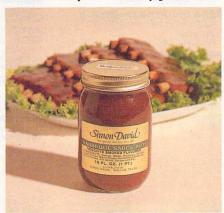
### The price is right (most of the time, anyway).

All prices mentioned in *Go Mall* are the most accurate prices available to our editorial staff at the time of publication. However, because The Electronic Mall is such a dynamic, changing environment, occasionally a printed price will be out-of-date by the time you look up the featured product online.

Here's a good rule of thumb: Before ordering anything from The Mall that appears in *Go Mall*, make sure you check its online price. You can be sure that this price is the most current.



Crabtree & Evelyn Father's Day gifts. GO CR



Barbeque sauce for Chef Dad. GO SIM



Visit Helen Hutchleys' grand opening. GO HH



Safeware protects your computer. GO SAF

#### Turn Your PC/XT/AT Into Multi-User, On-Line System

Multi-user On-line System Software (Reviewed by PC Week on 5/19/87)

You can now place a database of goods and services on-line using your own PC, so your customers can dial in over phone lines to access information, leave messages, and make purchases via modem. InfoHost, which can support as many as eight simultaneous modem interfaces, features a customizable relational database that can be adapted to the needs of your business.

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Autoquote	59
YGI Cove.	r 3
Cigna Insurance	45
Coffee, Anyone ???	59
CompuServe Information Manager	24
Computer Database Plus	21
GE Ridge	59
IQuest 25, 27,	29
Mentor Technology	3
Official Airline Guides 31,	59
On-Line Store	46
Paradise Technology	59
Power Comm	59
Quick & Reilly	19
Radio Shack Cover	r 2
Shoppers Advantage	38
Spear Financial	30
Supra Cover	r 4
Tower	59
University of Phoenix	28
Walden Books 44,	45

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U.S. General Services Administration

## UPDATE



# Win Prizes Playing Surcharge-Free YG!!

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CompuServe Navigator Version 3.0 has been released and can be ordered online (GO ORDER) for a limited time at \$79.95—a \$20 savings. CompuServe Navigator, a communications software program for Apple Macintosh computers, can be used to predefine entire CompuServe Information Service sessions. Users can review retrieved information offline. For owners of prior versions, CompuServe Navigator Upgrade Kit also is available for \$20. GO NAVIGATOR

The Mall's Spring Gift-Giving Guide features nearly 100 ideas for Father's Day, June 17. Find unique and unusual gifts at Hammacher Schlemmer (GO HS); shirts, trousers, sweaters and sailing/tennis attire at Brooks Brothers (GO BR); and fine cotton shirts at Paul Fredrick Shirts Co. (GO PFS). For sports-minded fathers, shop Austad's Golf Shop (GO AU), The Sport Source (GO SS) and JCPenney (GO JCP). Many Mall merchants also offer overnight and two-day delivery for last-minute shoppers. GO SG

*PC Week Extra!* offers HLBench in the Corporate Buyers' Forum. HLBench analyzes PC subsystems, including disk, graphic video, text video, windowing, numeric and CPU. HLBench also compares two machines feature by feature. In addition, 40 previous *PC Week* evaluations are available in the "Benchmark Programs" Library. GO PCW:FORUM

During June, the \$5 IQuest SmartSCAN charge is waived for Management and Manufacturing SmartSCANs. Management SmartSCAN identifies databases containing comprehensive coverage of management theory and practices, trends and people. Manufacturing SmartSCAN reviews databases containing financial data and trends for the manufacturing industry, and information on manufacturing topics, such as quality, inventory control and others. Search charges resulting from the SmartSCAN results menu remain in effect. GO IQUEST

Atari Portfolio Forum expands CompuServe's support of Atari computers. Access the forum's message sections and libraries for information on Atari's newest line of computers. Topics include telecommunication, database support, text editing, entertainment, linking the Portfolio to various brands of desktop computers and more. GO APORTFOLIO.

ABC Worldwide Hotel Guide's updated database includes more than 68,000 listings. These listings provide rates, location (proximity to airport, city center or beach, for example), amenities (such as nearby golf courses and spas), hotel restaurant facilities and telephone, fax and telex numbers. GO ABC

NEXT MONTH · Hobbies: Pastime and Passion · Banyan Systems Supports Networking Solutions · Making Your Business Budget with Online Help · Destination: Hawaii and Planning for the 1991 Eclipse · InfoWorld magazine hits the electronic newsstand



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JOHN C. DVORAK, PC MAGAZINE, 6/28/88

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inCider, The Apple II Magazine 1/89

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